

**SECTION 865
CABLE GUIDERAIL**

865-1 DESCRIPTION

Construct cable guiderail in accordance with the contract and at the locations designated in the plans or as directed.

Section 865

865-2 MATERIALS

Refer to Division 10:

Item	Section
Rail Elements	1046-2
Posts	1046-3
Hardware	1046-4
Organic Zinc Repair Paint	1080-9
Portland Cement Concrete, Class A	1000
Precast Concrete Anchors	1077
Select Material, Class VI	1016


Manufacture cable in accordance with AASHTO M-30, Type I, Class A. The cable shall be pre-inspected at the producer's facility prior to shipment.

865-3 CONSTRUCTION METHODS

Erect the rail elements to produce a smooth continuous rail paralleling the line and grade of the highway surface or as shown on the plans.

Posts may be power driven, or set by hand. Protect the top of steel posts by a suitable driving cap if power driven. If set by hand, dig post holes to the depth and at the locations shown on the plans. Thoroughly ram the bottom of the post holes so that the posts will have a stable foundation. Set the posts plumb and accurately space and align. Backfill the post holes in 6" layers with suitable material and thoroughly compact by tamping or puddling.

Where rock interferes with the proper installation of the post, excavate a shaft in the rock not less than 9" wide, parallel to the roadway, by 23" long, perpendicular to the roadway, and 24" deep. Place the post against the roadside edge of the shaft and fill in behind the post with Select Material Class VI, up to the top elevation of the rock. Fill the remainder of the hole with earth material. Where timber posts are to be driven in fill slopes 1 1/2:1 or steeper and the fill height is 15 feet or more, auger a 6" diameter pilot hole to the full depth of the post before driving.

 Where steel posts are required to be installed at box culverts, weld the post to the anchor plate, cut off, and align in accordance with the details shown in the plans or as directed.

When guiderail is being constructed near traffic, conduct operations so as to constitute the least hazard to the public. Schedule and conduct operations to construct and complete each individual continuous guiderail installation in the least possible time.

Do not begin work on any section of new guiderail until preparations are made to fully complete the installation of the section as a continuous operation. Once work is initiated on a section, pursue the work to its completion unless inclement weather or other conditions beyond the control of the Contractor interfere with the work. Begin attachment of the cable elements at the approach end of the guiderail and continue in the same direction as the movement of traffic.

865-4 MEASUREMENT AND PAYMENT

Cable Guiderail will be measured and paid for in linear feet of guiderail that has been satisfactorily completed and accepted exclusive of that length of guiderail that is within the pay limits of guiderail anchors. Measurement will be made from center to center of the outermost post in the length of guiderail being measured. Such price will include but is not limited to furnishing and erecting posts, cable, miscellaneous hardware, concrete, delineators, and all incidentals necessary to complete the work.

Double Faced Cable Guiderail will be measured and paid for in linear feet of guiderail that has been satisfactorily completed and accepted exclusive of that length of guiderail that is within the pay limits of guiderail anchors. Measurement will be made from center to center of the outermost post in the length of guiderail. Such price will include but is not limited to furnishing and erecting posts, cable, miscellaneous hardware, concrete, delineators, and all incidentals necessary to complete the work.

Cable Guiderail Anchor Unit will be measured and paid for in units of each that have been completed and accepted.

No separate measurement will be made of any cable, posts, concrete, hardware, or any other components of the completed anchor units that are within the pay limits shown on the plans.

Payment will be made under:

Pay Item	Pay Unit
Cable Guiderail	Linear Foot
Double Faced Cable Guiderail	Linear Foot
Cable Guiderail Anchor Unit	Each

SECTION 866 FENCE

866-1 DESCRIPTION

Furnish and erect woven wire, chain link, and barbed wire fence with gates in conformity with the details shown on the plans and at locations as shown on the plans.

866-2 MATERIALS

Refer to Division 10

Item	Section
Portland Cement Concrete, Class B	1000
Timber Posts and Braces	1050-2
Metal Posts and Rails	1050-3
Barbed Wire	1050-4
Woven Wire	1050-5
Chain Link Fabric	1050-6
Fittings and Accessories	1050-7
Fence Materials	1050-1