

ITEM 03606.3210 M - TRANSITION - CONCRETE MEDIAN BARRIER TO BOX BEAM MEDIAN BARRIER

DESCRIPTION:

The work shall consist of installing a concrete barrier to box beam barrier transition of the type indicated on the plans, at the locations indicated on the plans.

The transition shall consist of two separate, connected components: a concrete barrier safety shape and a two rail beam barrier.

MATERIALS:

Concrete Barrier. Concrete shall be Class A meeting the requirements of Section 501.

Reinforcing steel shall be epoxy coated meeting the requirements Subsection 709-04.

Concrete repair material, if required, shall meet the requirements of Subsection 701-04.

Anchor bolts for anchoring the steel plate sleeve attachment shall be ASTM A449. They shall be galvanized in accordance with 719-01.

Box Beam Barrier. The requirements of Subsection 710-21 shall apply together with the following:

Plates, splice blocks and end plates shall conform to the requirements of ASTM A36.

The steel sleeve attachment plates shall have slotted holes of sufficient length to allow a vertical adjustment of ± 13 mm.

Nuts and bolts used for the box beam median barrier erection shall conform to the requirements of ASTM A307.

All welding shall conform to the requirements of the SCM.

Rail sections used for tangent installations shall be at least 5.5 m long, unless otherwise noted.

All parts shall be galvanized in accordance with the requirements of 719-01.

CONSTRUCTION DETAILS:

Concrete Barrier. This shall be installed in accordance with the requirements of Subsection 555-3 and 556-3.

Spalled, honey combed, or otherwise defective concrete, as determined by the Engineer, shall be repaired with a material acceptable under 701-04. Methods of repair shall be acceptable to the Engineer. The color of the repaired portion shall match, as nearly as practicable, the color of the surrounding concrete. The repaired portions shall exactly match shape requirements. The repaired portion shall withstand a moderate blow from a 454 g hammer. Repairs shall be made at no additional cost to the State.

Box Beam Barrier. The requirements of Subsection 606-3.01 shall apply. Wherever the words "Standard Sheets" appear, they shall be interpreted as "Contract Plans."

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METHOD OF MEASUREMENT:

The work will be measured as the number of linear meters of two component transition installed between the limits indicated on the plans.

Measurement will be taken along the centerline of the topmost surface of the transition.

BASIS OF PAYMENT:

The unit price bid per linear meter shall include the cost of all labor, materials and equipment necessary to complete the work.