

Bridges and Structures

July 16, 2001

All Employees

521.1

Gary Novey

Bridges and Structures

Bridge Superstructure-MM No. 12 (Concrete Sealer on Repairs)

In situations where repair work is being done on a bridge, the field has requested that we apply concrete sealer to the traffic face and top of the existing concrete barrier rails. This should apply when overlays are being done or when new post are being added or rebuilt on the structures. New concrete barrier rails shall not be sealed. There is concern that the sealant prevents proper curing of the concrete and therefore should not be applied to new concrete surfaces

The cost of the sealing should be made incidental to a contract item. Examples of bid items where it could be included are: "Concrete Repair", "Repair Beam Ends", "Bridge Floor Overlay" or "Structural Concrete".

One issue to consider before adding the sealing work to the plans is the condition of the existing barrier rail. If the barrier has severe deterioration then consider whether repairs need to be made instead of sealing.

When concrete sealer is used on barrier rails the following note (E463, M463) should be added:

THE TOP AND INTERIOR FACES OF THE CONCRETE RAILING ARE TO BE CLEANED AND SEALED IN ACCORDANCE WITH STANDARD SPECIFICATION 2403.21 PART D. ALL COSTS ASSOCIATED WITH CLEANING AND SEALING OF THE CONCRETE RAILS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR "????".

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