

722-B-318 CONCRETE BRIDGE DECK OVERLAYS

(Adopted 06-16-22)

The Standard Specifications are revised as follows:

SECTION 722, BEGIN LINE 239, DELETE AND INSERT AS FOLLOWS:

Prior to hydrodemolition, the equipment shall be calibrated on an area of sound original deck concrete as designated by the Engineer. *Calibration shall be performed at the bottom depth of the overlay shown on the plans.*

The initial settings shall be verified on an area of unsound concrete. *This area shall not contain existing patches.* The initial settings ~~may need to~~ shall be adjusted in order to achieve total removal of unsound concrete *within the verification area.* Equipment shall be calibrated *at each day project bridge deck* prior to operation. Where directed, equipment shall be recalibrated to ensure removal of known areas of unsound concrete and to guard against removal of sound concrete. The Engineer shall be notified of the final equipment settings resulting from the calibration process.

SECTION 722, BEGIN LINE 835, DELETE AND INSERT AS FOLLOWS:

Hydrodemolition of the bridge deck will be measured by the square yard. Additional surface preparation *around reinforcing bars* will be measured by the linear foot of exposed reinforcing bar. Reinforcing bar repair will not be measured for payment.

When hydrodemolition is not shown on the plans, partial depth patching will be measured by the square foot.

The measurement of bridge deck patching concrete for partial depth cavities created by handchipping or hydrodemolition will be based on a theoretical quantity determined by multiplying the area of the appropriate partial depth cavities by an assumed average depth of 2 in. and converting the resulting volume into cubic yards. Overlay material used in a partial depth cavity will be measured by the cubic yard. The quantities of patching material used in a partial depth cavity will be included in the measurement of additional bridge deck overlay.

The overlay and bridge deck patching concrete used to fill cavities as part of patching an existing bridge deck overlay will not be measured for payment.

Overlay material used to fill surface irregularities *and partial depth cavities* will be ~~measured~~ *calculated* by the cubic yard and will be included ~~in the measurement of additional bridge deck overlay~~ *for payment for Bridge Deck Overlay Budget.*

SECTION 722, BEGIN LINE 896, DELETE AS FOLLOWS:

~~Patching material used for partial depth cavities will be paid for at the established price shown per cubic yard for bridge deck overlay, additional for the type of overlay material placed.~~

~~Overlay material used to fill surface irregularities will be paid for at the established price shown per cubic yard for bridge deck overlay, additional for the type of overlay material placed.~~

SECTION 722, BEGIN LINE 915, DELETE AND INSERT AS FOLLOWS:

The Department will include the pay item Bridge Deck Overlay Budget, with an established dollar amount in the proposal to pay for additional surface preparation completed after hydrodemolition and bridge deck overlay additional *quantity* used to fill irregularities and partial depth cavities. ~~This established amount is the Department's estimate of the total cost of the work required to be performed for the contract.~~ The established *Bridge Deck Overlay Budget* amount shown in the proposal is included in the total bid amount. The Department will pay for ~~those items~~ *the additional quantity* installed and listed with established prices for the quantities installed *to fill irregularities and partial depth cavities* as directed by the Engineer. Where the ~~work~~ *material* exceeds the Department's ~~estimated amount~~ *planned overlay quantity*, the additional quantities will be reviewed for acceptance in accordance with 104.03 ~~except that the additional surface preparation and bridge deck overlay additional will be paid at the pre-determined established prices shown~~ *payment will be at the invoice cost of the additional bridge deck overlay quantity installed. An amount equal to 10% of the invoice cost will also be paid for additional disposal and all other related costs in connection with the additional quantity installed. No additional markup shall be applied for additional bridge deck overlay quantity installed. This amount will be paid using the Bridge Deck Overlay Budget pay item.*

SECTION 722, BEGIN LINE 945, DELETE AND INSERT AS FOLLOWS:

~~Items shown with an established price will be paid at the prices shown. Where any of the following items are shown in the schedule of pay items the bid item and price will prevail over the established prices shown.~~

| Pay Item | Pay Unit Symbol | Established Price |
|---|----------------------------|------------------------------|
| Bridge Deck Overlay, Additional LMC..... CYS..... | \$550 | |
| Bridge Deck Overlay, Additional LMC VE | CYS | \$650 |
| Bridge Deck Overlay, Additional Silica Fume Modified | CYS | \$200 |
| Bridge Deck Overlay, Additional Surface Prep | LFT | \$1520 |

SECTION 722, AFTER LINE 1002, INSERT AS FOLLOWS:

When the project does not include the installation of a new bridge deck overlay, the cost of partial depth patching below the bottom of the overlay shall be included in the cost of bridge deck overlay, patching. The cost of patching and overlay materials used to fill the cavities shall be included in the cost of bridge deck overlay, patching.

The cost of removing the existing concrete; furnishing, hauling, and placing all materials including the epoxy; preparing the surface; and all necessary incidentals shall be included in the cost of overlay dam.