

ITEM #1600010A - CEMENT COST ADJUSTMENT

The Cement Price is available on the Department of Transportation web site at:

<http://www.ct.gov/dot/matladj>

This provision covers the method of price adjustment for increases and decreases associated with the price of cement used in the following contract items:

ITEM #0601051A – CLASS “40” CONCRETE
ITEM #0601053A – CLASS “50” CONCRETE
ITEM #0601279A – CLASS “60” CONCRETE
ITEM #0601005 – CLASS “A” CONCRETE
ITEM #0601201 – CLASS “F” CONCRETE
ITEM #0601301 – UNDERWATER CONCRETE

The Connecticut Department of Transportation will furnish the *Cement Price* for Portland cement using the latest published price, in dollars per ton (U.S.), for Portland cement (Type I) quoted for Boston, U.S.A. in the Engineering News-Record (ENR), Construction Economics section or at ENR website <http://www.enr.com> under “Construction Economics”.

The *Cement Price* will be posted on the Wednesday immediately following the publishing of the monthly price in ENR which is normally the first week of the month.

To be eligible for a Cement Cost Adjustment, the difference between the *Cement Base Price* and *Cement Period Price* shall be in excess of five percent (5%).

Cement Base Price: The price per ton (U.S.) which is posted by the Department of Transportation and is in effect 28 days prior to the actual bid opening date.

Cement Period Price: The price per ton (U.S.) which is posted by the Department of Transportation, and is in effect during the period in which the eligible contract items subject to adjustment were paid on an estimate.

The “Factor” used in formula to determine the cost adjustment is calculated as follows:

1. The *Cement Period Price* is greater than the *Cement Base Price*:

$$\text{Factor} = (\text{Period Price} / \text{Base Price}) - 1.05$$

If Factor is equal to or less than “0”, then no cost adjustment applies.

If Factor is greater than “0”, then an adjustment applies using formula below.

2. The *Cement Period Price* is less than the *Cement Base Price*:

$$\text{Factor} = (\text{Period Price} / \text{Base Price}) - 0.95$$

If Factor is equal to or greater than “0”, then no cost adjustment applies.

If Factor is less than “0”, then an adjustment applies using formula below.

Formula: $\text{Factor} \times Q \times V \times 0.001102 \times \text{Base Price} = \$$ _____

Q = Cement content for the approved concrete mix designs expressed in kilograms per cubic meter.

V = Volume of concrete completed and accepted in place, expressed in cubic meter.

* 0.001102 = coefficient to convert kilograms in the symbol “Q” to tons (U.S.)

Note¹ - There will be no adjustment permitted in the remaining contract items containing cement. Because of this provision and because the Contractors are being notified before submission of bids, the adjustment being applied shall not be considered as a changed condition in the contract.

Basis of Payment: The “Cement Cost Adjustment” will be calculated using the formulas indicated above. A payment will be made for an increase in costs. A deduction from monies due the contractor will be made for a decrease in costs.

No adjustments will be made for any cement replacement materials such as fly ash or ground granulated blast furnace slag.

The sum of money shown on the estimate, and in the itemized proposal as “Estimated Cost”, for this item will be considered the bid price although payment will be made as described above. The estimated cost figure is not to be altered in any manner by the bidder. If the bidder should alter the amount shown, the altered figure will be disregarded and the original cost figure will be used to determine the amount of the bid for this Contract.

<u>Pay Item</u>	<u>Pay Unit</u>
Cement Cost Adjustment	EST