



FDM 19-21-1 Overview

February 25, 2011

1.1 General

The quality management program (QMP) provisions require the contractor to perform quality control testing during material production, material placement, and/or construction. The QMP provisions allow department product acceptance based on the contractor's quality control tests when verified with department testing. Each of the QMP provisions is a standard specification or standard special provision (STSP). Each QMP provision is independent of the others. An individual contract can contain any combination of QMP provisions meeting the following individual QMP use criteria.

FDM 19-21-2 Use of Standard Specification QMP's

June 23, 2011

2.1 QMP Standard Specification Provisions

QMP HMA Mixture: This QMP provision is included in [standard spec section 460](#). This provision covers all HMA paving projects that use an HMA mixture specified in [standard spec section 460](#) and is included with LFA and SHRM projects. As stated in [standard spec section 460](#), the engineer may waive the QMP specification on projects with quantities of HMA pavement less than 500 tons, or for temporary pavements that will be placed and removed before the completion of the contract.

Bid items covered by [standard spec section 465](#) (HMA Surface bid items) do not use the QMP specification.

There is no pay item for the testing required under this provision. Costs for all QMP sampling, testing, and documentation required under this provision are incidental to the work.

Incentive Density HMA Pavement, Item 460.2000: The engineer will use this bid item to pay for density incentive earned by the contractor.

For the project letting, the designer predetermines the amount for this bid item, thus all bidders will bid the same amount for the bid item. The designer should preprint on the schedule of items a unit price of \$1 and use a predetermined bid amount calculated by multiplying the total tons of HMA pavement mixes by 0.64 and rounding up to the next \$10.00.

QMP CONCRETE: The QMPs are included in standard specification part 7 in the following four sections;

1. Standard spec 701 outlines the general requirements for all QMPs within part 7,
2. Standard spec 710 outlines the general requirements common to the three concrete related QMPs within part 7,
3. Standard spec 715 outlines specific QMP requirements for class 1 concrete used in pavements and structures, and
4. Standard spec 716 outlines specific QMP requirements for class II and III concrete used in ancillary applications.

Individual material sub-sections reference appropriate sections of part 7. If design requires the use of a special provision the materials should reference appropriate section of part 7.

There is no pay item for the testing required under this provision. Costs for all QMP sampling, testing, and documentation required under standard spec part 7 are incidental to the work.

Incentive Strength Concrete: Include one or both of the following two bid items on projects requiring the use of class I concrete in pavements and/or concrete structures to pay for compressive strength incentives earned by the contractor.

1. Item 715.0415 - Incentive Strength Concrete Pavement,

For the project letting, the designer predetermines the amount of this bid item, thus all bidders will bid the same amount for the bid item. The designer should preprint on the schedule of items a unit price of \$1 and a predetermined bid amount of \$0.30 per square yard of concrete pavement, or a minimum of \$500, whichever is more.

2. Item 715.0502 - Incentive Strength Concrete Structures,

For the project letting, the designer predetermines the amount of this bid item, thus all bidders will bid the same amount for the bid item. The designer should preprint on the schedule of items a unit price of \$1 and a predetermined bid amount of \$6.00 per cubic yard of concrete masonry, or a minimum of \$500, whichever is more.

FDM 19-21-3 Use of QMP Standard Special Provisions[June 23, 2011](#)

STSP 301-010; QMP Base Aggregate: Use this special provision on projects with any Base Aggregate Open Graded or Base Aggregate Dense bid items. For dense graded, apply to all grades except reclaimed asphaltic pavement. Apply to all open graded base aggregates. Do not apply to Aggregate Detours, Salvaged Asphaltic Pavement Base, Breaker Run, Select Crushed, Pit Run, Subbase, or Riprap bid items.

This provision requires contractor testing for small quantities. Use whenever any one of the Base Aggregate Dense or Base Aggregate Open Graded bid items are in the contract regardless of the quantity.

There is no pay item for the testing required under this provision. Costs for all QMP sampling, testing, and documentation required under this provision are incidental to the work.

STSP 440-010; QMP Ride; Incentive IRI Ride, Item 440.4410.S: Use this special provision on projects with a mile or more of mainline pavement. The designer may consider using this provision on certain projects with less than a mile of mainline pavement, such as interstate highways or other high-volume arterials.

Include pavements constructed under the HMA Pavement and Concrete Pavement bid items, as well as mainline pavements built under warranty or other special provisions. Locations such as high-speed connector ramps may also be considered as mainline pavement. The designer should specify such locations in a separate contract special provision.

This provision may not be appropriate for some rehabilitation and maintenance projects. The designer should consider the expected life of the rehabilitation, safety, public perception, and potential extra cost of avoiding ride disincentives. Projects designed to be short-term fixes may not warrant the additional costs associated with including and administering this provision.

There is no pay item for the testing required under this provision. Costs for furnishing and operating the profiler, documenting the profile results, and correcting the final pavement surface as required under this provision are incidental to the work. There is, however, a pay item for the IRI ride incentive payable under this provision.

Incentive IRI Ride, Item 440.4410.S: The engineer will use this bid item to pay for IRI ride incentive earned by the contractor.

For the project letting, the designer predetermines the amount for this bid item, thus all bidders will bid the same amount for the bid item. The designer should preprint on the schedule of items a unit price of \$1 and a predetermined bid amount of \$2000 per lane mile of pavement covered under this provision.

STSP 460-020; QMP HMA Pavement Nuclear Density: Use this special provision on projects with a combined total HMA pavement of 10,000 tons or more.

There is no pay item for the testing required under this provision. Costs for all QMP sampling, testing, and documentation required under this provision are incidental to the work. There is, however, a pay item for the density incentive payable under [standard spec section 460](#).

Incentive Density HMA Pavement, Item 460.2000: The engineer will use this bid item to pay for density incentive earned by the contractor.

For the project letting, the designer predetermines the amount for this bid item, thus all bidders will bid the same amount for the bid item. The designer should preprint on the schedule of items a unit price of \$1 and use a predetermined bid amount calculated by multiplying the total tons of HMA pavement mixes by 0.64 and rounding up to the next \$10.00.