

PROPOSED DRAFT MAY 2015

401.03 CONSTRUCTION REQUIREMENTS

Produce plant mix in accordance with Table 701-15, Table 701-16 Table 701-17, Table 701-18 and form CB30QA-VM (S).

Produce plant mix in a plant capable of accurately proportioning and uniformly mixing all ingredients. Do not begin plant mix production until receiving notification that the Department's mix design verification is complete.

For commercial mix, produce plant mix with actual asphalt cement content within +/- 0.3% of the mix design or field established job mix formula.

For non-commercial mix, set the initial job mix targets before producing more than 2000 tons (2000 MT) of plant mix surfacing. Plant mix produced prior to setting initial targets is defined as start-up mix. Furnish the Project Manager 1 copy of form CB30QA-VM (S) with the proposed job mix targets for VMA, VFA, VTM, and D/A. Once the job mix targets are set, Quality Assurance (QA) will be applied to all subsequent plant mix produced. No pay incentive ~~will be applied to the plant mix until the targets are set. Produce start-up mix meeting the criteria listed in accordance with the Start-Up Job Mix Range in Table 701-18. A Hamburg wheel track test (Hamburg) will be run on the applicable gyratory pucks and/or the in-place mix represented by the pucks, when the produced mix does not meet all the criteria specified in accordance with the start-up job mix range in Table 701-18.~~

Deleted: or disincentive

The Contractor may revise the job mix targets one time during the contract. Submit revised job mix targets no later than 2 business days following completion of plant mix production, or initial job mix targets will be used to determine payment. If more than one project is included in the contract (tied projects), the job mix targets may be revised for each project only if the projects use different mix designs. Submit to the Project Manager 1 signed copy of form CB30-QA-VM (S) with the revised job mix targets for VMA, VFA, VTM and D/A. The revised targets will be applied retroactively to all plant mix produced after the initial targets are set, and payment will be recalculated.

No monetary, time or other compensation will be allowed for Department actions required due to the setting of initial targets, (e.g. P-value shutdowns, etc.).

401.03.2 Hamburg Wheel Track Testing (Hamburg)

~~Furnish a sample of plant mix surfacing material for Hamburg acceptance, as directed by the Project Manager. The Department may require Hamburg samples at any time, including during the production of start-up mix.~~

Deleted: Provide the Project Manager

Deleted: after initial job mix targets have been established for non-commercial mix and

Deleted: for commercial mix

Deleted: production non-commercial

~~If plant mix fails the Hamburg, make adjustments to produce plant mix meeting the requirements specified in the contract. After a failing Hamburg no more than 300 tons (300 MT) of plant mix may be produced until passing Hamburg results are received.~~

When 2 consecutive Hamburg samples do not meet the requirements, suspend production and submit a revised mix design and samples for verification and Hamburg testing. The initial mix design requirements will be used for verification. Do not resume production until the revised mix design is verified and Hamburg mix design requirements are met.

Plant mix lots represented by samples that do not meet Hamburg specifications are not eligible for QA incentives including ride and density incentives.

Deleted: For non-commercial mix, r

Deleted: start-up

~~Remove and replace any plant mix represented by a failing Hamburg test. Plant mix removal and replacement is at no cost to the Department.~~

Deleted: For commercial mix, remove and replace any mix represented by a failing Hamburg test.

401.03.6 Acceptance of Non-Commercial Plant Mix Surfacing (QA)

For the start-up mix, a \$3.00/ton price reduction (\$9.00/ton maximum) in the unit bid price for plant mix surfacing will be applied for each test not meeting the VMA, VFA, VTM, or D/A specified. Price reductions will be assessed on the quantity of material represented by each failing sample. The quantity of material represented by each sample is the total tons of start-up mix produced divided by the total number of samples representing the material.

Deleted: T

Once targets have been set, the properties listed in Table 701-18 for non-commercial plant mix are designated for acceptance on a lot-by-lot basis in accordance with Subsection 105.03.2. The pay factor in Table 401-1 is applied to plant mix surfacing lots for VMA, VFA, VTM and D/A. The asphalt content used for calculations is determined in accordance with MT 319. The D/A is calculated in accordance with MT 319, and the gradation determined in accordance with MT 320 on the aggregate remaining after the ignition oven test.

401.03.17 Tack Coat

Apply tack coat in accordance with Section 407 and the contract.

Apply tack coat on aggregate treated surfaces, existing surfacing to be overlaid and between lifts when pavement is constructed in multiple lifts.

Deleted: the prepared

NO COMMENTS RECEIVED

**FINAL
EFFECTIVE AUGUST 6, 2015**

401.03 CONSTRUCTION REQUIREMENTS

Produce plant mix in accordance with Table 701-15, Table 701-16 Table 701-17, Table 701-18 and form CB30QA-VM (S).

Produce plant mix in a plant capable of accurately proportioning and uniformly mixing all ingredients. Do not begin plant mix production until receiving notification that the Department's mix design verification is complete.

For commercial mix, produce plant mix with actual asphalt cement content within +/- 0.3% of the mix design or field established job mix formula.

For non-commercial mix, set the initial job mix targets before producing more than 2000 tons (2000 MT) of plant mix surfacing. Plant mix produced prior to setting initial targets is defined as start-up mix. Furnish the Project Manager 1 copy of form CB30QA-VM (S) with the proposed job mix targets for VMA, VFA, VTM, and D/A. Once the job mix targets are set, Quality Assurance (QA) will be applied to all subsequent plant mix produced. No pay incentive will be applied to the plant mix until the targets are set. Produce start-up mix meeting the criteria listed in accordance with the Start-Up Job Mix Range in Table 701-18. A Hamburg wheel track test (Hamburg) will be run in accordance with Subsection 401.03.2 when the produced mix does not meet all the criteria specified in accordance with the start-up job mix range in Table 701-18.

The Contractor may revise the job mix targets one time during the contract. Submit revised job mix targets no later than 2 business days following completion of plant mix production, or initial job mix targets will be used to determine payment. If more than one project is included in the contract (tied projects), the job mix targets may be revised for each project only if the projects use different mix designs. Submit to the Project Manager 1 signed copy of form CB30-

QA-VM (S) with the revised job mix targets for VMA, VFA, VTM and D/A. The revised targets will be applied retroactively to all plant mix produced after the initial targets are set, and payment will be recalculated.

No monetary, time or other compensation will be allowed for Department actions required due to the setting of initial targets, (e.g. P-value shutdowns, etc.).

401.03.2 Hamburg Wheel Track Testing (Hamburg)

Furnish a sample of plant mix surfacing material for Hamburg acceptance after initial job mix targets have been established for non-commercial mix. Furnish additional samples as directed by the Project Manager. The Department may require Hamburg samples at any time. Hamburg samples may be run on the applicable gyratory pucks and/or in-place mix represented by the pucks. Hamburg test results for the initial target set will be furnished to the Contractor within 7 business days. Hamburg test results in all other cases will be furnished to the Contractor as soon as they are available.

If plant mix fails the Hamburg, make adjustments to produce plant mix meeting the requirements specified in the contract. After a failing Hamburg no more than 300 tons (300 MT) of plant mix may be produced until passing Hamburg results are received.

When 2 consecutive Hamburg samples do not meet the requirements, suspend production and submit a revised mix design and samples for verification and Hamburg testing. The initial mix design requirements will be used for verification. Do not resume production until the revised mix design is verified and Hamburg mix design requirements are met.

Plant mix lots represented by samples that do not meet Hamburg specifications are not eligible for QA incentives including ride and density incentives.

Remove and replace any plant mix represented by a failing Hamburg test. Plant mix removal and replacement is at no cost to the Department.

401.03.6 Acceptance of Non-Commercial Plant Mix Surfacing (QA)

For the start-up mix, a \$3.00/ton price reduction (\$9.00/ton maximum) in the unit bid price for plant mix surfacing will be applied for each test not meeting the VMA, VFA, VTM, or D/A specified. Price reductions will be assessed on the quantity of material represented by each failing sample. The quantity of material represented by each sample is the total tons of start-up mix produced divided by the total number of samples representing the material.

Once targets have been set, the properties listed in Table 701-18 for non-commercial plant mix are designated for acceptance on a lot-by-lot basis in accordance with Subsection 105.03.2. The pay factor in Table 401-1 is applied to plant mix surfacing lots for VMA, VFA, VTM and D/A. The asphalt content used for calculations is determined in accordance with MT 319. The D/A is calculated in accordance with MT 319, and the gradation determined in accordance with MT 320 on the aggregate remaining after the ignition oven test.

401.03.17 Tack Coat

Apply tack coat in accordance with Section 407 and the contract.

Apply tack coat on aggregate treated surfaces, existing surfacing to be overlaid and between lifts when pavement is constructed in multiple lifts.