

PROPOSED DRAFT February 2015

401.03.1 Mix Design

Furnish samples of aggregate from each stockpile, representative of the mix design. Provide at least 800 pounds of aggregate, which can be appropriately proportioned to match the mix design. A total weight of 600 pounds is allowed if the mix design includes Hamburg testing results. Furnish 5 gallons (19 L) of the specified asphalt binder or indicate consent to use binder of the same source and grade provided from the Department's supply. Furnish 5 pounds of hydrated lime or indicate consent to use lime of the same source provided from the Department's supply.

The Department has 30 calendar days from receipt of the mix design materials and signed mix design documents to review/verify the mix design. Mix design verification consists of:

- Ensuring passing Hamburg test results;
- A review of the submitted mix design documents to ensure all applicable design and aggregate requirements have been met; and,
- Testing of the submitted aggregate for conformance with Subsection 701.03. Hamburg test results may be submitted with the mix design. Ensure Hamburg testing is done in accordance with MT 334. The Department reserves the right to verify any Hamburg results.

Tensile strength ratio test results do not have to be submitted with the signed mix design documents but must be received and reviewed before a mix design will be considered verified. Contract time will be extended for the actual contract time the Contractor's paving start date was delayed, as verified by their most recent submitted schedule, and only for contract time assessed after the 30 day verification time frame. No additional compensation is allowed for these Department-caused delays. Contract time will not be extended if the delay occurs between November 1st and April 15th.

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COMMENTS

1. 401.03.1 Mix Design: This change provides a reduction in the volume of material submitted to the department if Hamburg tests are included. MCA supports the reduction of the mix design sample size required by MDT if we also submit third party Hamburg tests. During the meeting MCA members asked that in light of this specification if the 30 day time period the MDT has to approve a mix design could be shortened. MDT expressed a reluctance to shorten the time period due to high volumes of mix designs that are submitted and the other tests that MDT is required to do. There was discussion on this point and Mr. Strizich agreed to take a look at the time period later. MCA supports this change and appreciates the department's willingness to review the time period after application of this spec change.

Response: Agreed

2. I think it should say somewhere if RAP is included in the mix design, RAP must come from the project. Similar to the old Gr. D RAP specifications that said to mill three areas to produce RAP for the mix design.

Response: The sentence, "Furnish samples of material from each stockpile, representative of the mix design." was added to achieve this this. There are cases in which the RAP may not be coming from the project but rather an existing stockpile.

3. 401.03.1: The section I don't understand is in the first sentence. What does representative of the mix design mean? Also we have a project where the contractor provided RAP material for the mix design that is not from the project or is not from the same source as the production mix will be made from. Currently our specs don't address this but I think they should somehow. Something along the lines of the RAP provided for the mix design comes from the same source as the used during production.

Response: The sentence, "Furnish samples of material from each stockpile, representative of the mix design." was added to achieve this this. The Materials Bureau is looking at other possible changes.

FINAL EFFECTIVE July 14, 2016

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- Ensuring passing Hamburg test results;
- A review of the submitted mix design documents to ensure all applicable design and aggregate requirements have been met; and,
- Testing of the submitted aggregate for conformance with Subsection 701.03.

Hamburg test results may be submitted with the mix design. Ensure Hamburg testing is done in accordance with MT 334. The Department reserves the right to verify any Hamburg results.

Tensile strength ratio test results do not have to be submitted with the signed mix design documents but must be received and reviewed before a mix design will be considered verified. Contract time will be extended for the actual contract time the Contractor's paving start date was delayed, as verified by their most recent submitted schedule, and only for contract time assessed after the 30 day verification time frame. No additional compensation is allowed for these Department-caused delays. Contract time will not be extended if the delay occurs between November 1st and April 15th.