

Purpose of a Supplemental Update

This Supplemental Update contains amendments to MMCD documents to correct errors and omissions that have been brought to the attention of the MMCD Association. The amendments have been prepared by the MMCD Association in the same manner and in the same spirit as the other MMCD documents, and the amendments are subject to the general disclaimer that applies to all MMCD documents.

Incorporation of an Amendment that is in a Supplemental Update

Before any amendment in a Supplemental Update will be included in a Tender or a Contract Document, it must be explicitly incorporated by express reference in Schedule 1 - Schedule of Contract Documents to the Form of Agreement.

When properly incorporated by reference each incorporated amendment is deemed to form part of the Contract Documents as a Supplementary General Condition, Supplementary Specification or Supplementary Detail Drawing, as appropriate.

Users can elect to adopt all, some or none of the amendments in any Supplemental Update. An entire Supplemental Update can be incorporated by referencing, for example: "MMCD Supplemental Update 2012-05-30". An individual amendment within a Supplemental Update can be incorporated by referencing its unique identification number, for example: "GC 13.9.1(1)S - 2012-001 (2012-05-30)".

Supplemental Update No.:	Specifications – 31 05 17 – 2016-01 (2016-11-18)		
Affected Document(s):	Volume II	Change Type:	Addition
Section:	Specifications	Reference:	31 05 17 2.13
Currently:	New Section not currently included in Platinum Edition Volume II		
Should Be:	<p>.1 Recycled Asphalt Pavement (RAP) shall consist of asphalt concrete free from organic matter, contaminated and other extraneous material.</p> <p>.2 Source of RAP shall be from asphalt removal, surplus generated during plant start-up, transition between mixes, plant clean out, or excess mix produced that could not be placed.</p> <p>.3 RAP gradation shall not exceed the maximum aggregate size for the specified asphalt mix.</p>		

Supplemental Update No.:	Specifications – 31 05 17 – 2016-02 (2016-11-18)		
Affected Document(s):	Volume II	Change Type:	Addition
Section:	Specifications	Reference:	31 05 17 3.1
Currently:	New Section not currently included in Platinum Edition Volume II		
Should Be:	<p>.3 Handling</p> <p>Handling and storage of RAP shall be in accordance with National Asphalt Pavement Association (NAPA) – Quality Improvement Series 129 Best Practices for RAP and RAS Management.</p>		

Supplemental Update No.:	Specifications – 32 12 16 – 2016-03 (2016-11-18)		
Affected Document(s):	Volume II	Change Type:	Replacement
Section:	Specifications	Reference:	32 12 16 1.0
Change Summary:	Replace 32 12 16 1.0.1 and add 32 12 16 1.0.2		
Currently:	.1 <u>Section 32 12 16</u> refers to those portions of the work that are unique to the supply and placement of hot-mix asphalt concrete paving. This section must be referenced to and interpreted simultaneously with all other sections pertinent to the works described herein.		
Should Be:	.1 <u>Section 32 12 16</u> refers to those portions of the work that are unique to the supply and placement of hot-mix asphalt (HMA) and warm-mix asphalt (WMA) concrete paving. This section must be referenced to and interpreted simultaneously with all other sections pertinent to the works described herein. .2 WMA represents technologies which allow a reduction in the temperature at which asphalt mixtures are produced and placed. WMA technologies include those in which an additive is mixed with the asphalt cement or added to the mixture during production, and to plant foaming processes.		

Supplemental Update No.:	Specifications – 32 12 16 – 2016-04 (2016-11-18)		
Affected Document(s):	Volume II	Change Type:	Replacement
Section:	Specifications	Reference:	32 12 16 2.2.1 and 2.2.2
Change Summary:	Replace 32 12 16 2.2.1 and 32 12 16 2.2.2		
Currently:	.1 Submit job mix formula to Contract Administrator for review and approval. .2 Mix may contain up to a maximum 20% by mass of RAP without a special mix design. Contract Administrator may approve higher proportion of RAP if Contractor demonstrates ability to produce mix meeting requirements of specification.		
Should Be:	.1 Submit job mix formula to Contract Administrator for review and approval. The mix design shall identify HMA or WMA with the respective mixing and compaction temperatures. .2 Mix may contain up to 15% recycled asphalt cement replacement without changing binder grade. Design of mix to include RAP from proposed source blended with virgin aggregate.		

Supplemental Update No.:	Specifications – 32 12 16 – 2016-05 (2016-11-18)		
Affected Document(s):	Volume II	Change Type:	Additions
Section:	Specifications	Reference:	32 12 16 2.2.3.3
Currently:	New Sections not currently included in Platinum Edition Volume II		
Should Be:	.5 Percentage of RAP used shall be stated in the mix design report .6 Minimum Tensile Strength Ratio (TSR): 80 for mix design with RAP content		

Supplemental Update No.:	Specifications – 32 12 16 – 2016-06 (2016-11-18)		
Affected Document(s):	Volume II	Change Type:	Addition
Section:	Specifications	Reference:	32 12 16 2.2
Currently:	New Section not currently included in Platinum Edition Volume II		
Should Be:	.4 Modification of asphalt cement either using additives or by foaming shall be in accordance with the approved mix design of the WMA.		

Supplemental Update No.:	Specifications – 32 12 16 – 2016-07 (2016-11-18)		
Affected Document(s):	Volume II	Change Type:	Addition
Section:	Specifications	Reference:	32 12 16 3.1.1.9
Currently:	New Section not currently included in Platinum Edition Volume II		
Should Be:	.4 Use minimum 0.3% of anti-stripping agent, if Tensile Strength Ratio (TSR) is less than 80%.		

Supplemental Update No.:	Specifications – 32 12 16 – 2016-08 (2016-11-18)		
Affected Document(s):	Volume II	Change Type:	Replacement
Section:	Specifications	Reference:	32 12 16 3.1.4
Change Summary:	Replace 32 12 16 3.1.4		
Currently:	.4 Mixing tolerances:		
Should Be:	.4 Mixing tolerances including variations resulting from adding RAP:		

Supplemental Update No.:	Specifications – 32 12 16 – 2016-09 (2016-11-18)		
Affected Document(s):	Volume II	Change Type:	Replacement
Section:	Specifications	Reference:	32 12 16 3.4.5
Change Summary:	Replace 32 12 16 3.4.5		
Currently:	.5 Deliver loads continuously in covered vehicles and immediately spread and compact. Deliver and place mixes at temperature within specified range. Temperature of mix upon placement shall not be less than 125°C.		
Should Be:	.5 Deliver loads continuously in covered vehicles and immediately spread and compact. Deliver and place mixes at temperature within specified range under the approved mix design.		

Supplemental Update No.:	Specifications – 32 12 17 – 2016-10 (2016-11-18)		
Affected Document(s):	Volume II	Change Type:	Replacement
Section:	Specifications	Reference:	32 12 17 1.0.1
Change Summary:	Replace 32 12 17 1.0.1		
Currently:	.1 <u>Section 32.12.17</u> refers to those portions of the work that are unique to the supply and placement of Superpave hot-mix asphalt (HMA) concrete paving. This section must be referenced to, and interpreted simultaneously with, all other sections pertinent to the works described herein.		
Should Be:	.1 <u>Section 32.12.17</u> refers to those portions of the work that are unique to the supply and placement of Superpave hot-mix asphalt (HMA) and Superpave warm-mix asphalt (WMA) concrete paving. This section must be referenced to, and interpreted simultaneously with, all other sections pertinent to the works described herein. Requirements applicable to Superpave HMA in sub-sections 2.0 Products and 3.0 Execution also apply to Superpave WMA.		

Supplemental Update No.:	Specifications – 32 12 17 – 2016-11 (2016-11-18)		
Affected Document(s):	Volume II	Change Type:	Addition
Section:	Specifications	Reference:	32 12 17 1.0
Currently:	New Section not currently included in Platinum Edition Volume II		
Should Be:	.6 WMA represents technologies which allow a reduction in the temperature at which asphalt mixtures are produced and placed. WMA technologies include those in which an additive is mixed with the asphalt cement or added to the mixture during production, and to plant foaming processes.		

Supplemental Update No.:	Specifications – 32 12 17 – 2016-12 (2016-11-18)		
Affected Document(s):	Volume II	Change Type:	Replacement
Section:	Specifications	Reference:	32 12 17 1.4.1.2
Change Summary:	Replace 32 12 17 1.4.1.2		
Currently:	.2 Information on the design aggregate structure including the source(s) of aggregates, kind of aggregates, required quality characteristics, and gradation;		
Should Be:	.2 Information on the design aggregate structure including the source(s) of aggregate, type of aggregates, RAP, required quality characteristics and gradation.		

Supplemental Update No.:	Specifications – 32 12 17 – 2016-13 (2016-11-18)		
Affected Document(s):	Volume II	Change Type:	Replacement
Section:	Specifications	Reference:	32 12 17 2.2
Change Summary:	Replace 32 12 17 2.2		
Currently:	.2 Submit Superpave HMA mix design(s), to Contract Administrator for review and approval, in accordance with 1.4 of this section.		
Should Be:	.2 Submit Superpave HMA mix design(s), to Contract Administrator for review and approval, in accordance with 1.4 of this section. The mix design shall identify HMA or WMA with the respective mixing and compaction temperatures.		

Supplemental Update No.:	Specifications – 32 12 17 – 2016-14 (2016-11-18)		
Affected Document(s):	Volume II	Change Type:	Additions
Section:	Specifications	Reference:	32 12 17 2.2
Currently:	New Sections not currently included in Platinum Edition Volume II		
Should Be:	<p>.3 Where RAP will be incorporated in the mix, the mix design shall include RAP content as per Section 1.2 References.</p> <p>.4 Use minimum 0.3% of anti-stripping agent, if Tensile Strength Ratio (TSR) is less than 80%</p> <p>.5 Modification of asphalt cement for WMA either by using additives or by foaming shall be in accordance with the approved mix design of the WMA technology.</p>		

Supplemental Update No.:	Specifications – 32 12 17 – 2016-15 (2016-11-18)		
Affected Document(s):	Volume II	Change Type:	Replacement
Section:	Specifications	Reference:	32 12 17 3.4.5
Change Summary:	Replace 32 12 17 3.4.5		
Currently:	.5 Deliver loads continuously in covered vehicles and immediately spread and compact. Deliver and place mixes at temperature within specified range. Temperature of mix upon placement shall not be less than 125°C.		
Should Be:	.5 Deliver loads continuously in covered vehicles and immediately spread and compact. Deliver and place mixes at temperature within specified range under the approved mix design.		

Supplemental Update No.:	Specifications – 32 12 17 – 2016-16 (2016-11-18)		
Affected Document(s):	Volume II	Change Type:	Replacement
Section:	Specifications	Reference:	32 12 17 3.6.1
Change Summary:	Replace 32 12 17 3.6.1		
Currently:	.1 Roll hot-mix asphalt continuously to average density not less than 97% of the Superpave hot-mix asphalt job-mix formula (JMF) bulk relative density (BRD) with no individual test less than 96%, or as directed by the Contract Administrator.		
Should Be:	.1 Roll asphalt continuously to average density of 93% of the SuperPave Maximum Theoretical Density (MTD) with no individual test less than 91% of MTD.		