## LRFD Bridge Design Manual Update ~ July 1, 2025

BDM Articles Updated	Description of BDM Update	Implementation Date
H and RS Signed Standards Note  1.2, 1.8.1.1, 1.8.14, 1.9.7, 1.14.1, 5.1.1, 3.2, 3.6, deleted 3.6.1.2 to 3.6.1.5 and renumbered 3.6.1.6 to 3.6.1.8 and commentary, 3.8, 5.3.1.1, 5.3.2, 5.3.4, 5.3.4.1, 5.3.4.2, 5.4, C5.4, 5.7.1.1, 5.7.2.6, 5.8.1.2.1.1, 5.8.5.2, 6.5.1.1.1, 6.5.2.2, 6.6.4.2.1, 6.6.4.2.1.1, 6.6.4.2.1.2, 6.6.4.2.1.3	The signed H40-06, H40-14, H44-07, H44-14, and RS40-10 standards will no longer be supported and shall no longer be specified for use on the state transportation system. State projects with a completed or near completed B01 (TSL) or further in development can continue to make use of these standards. Currently, it is expected local systems will continue supporting and using the signed H24 and H30 standards.	July 1, 2025
A, B, C, and D AASHTO Beam Working Standards Note  3.6, new 3.6.1.2, 5.2.1.1, 5.2.4.1.2, 5.3.2.1, multiple articles in 5.4 and C5.4, 5.7.1.1, 6.5.1.1.1, 6.5.4.1.2, 6.5.4.2.1, 6.5.4.3.1	The A, B, C, and D AASHTO beam working standards will no longer be supported and shall no longer be specified for use on the state transportation system. State projects with a completed or near completed B01 (TSL) or further in development can continue to make use of these working standards. Currently, it is expected local systems will continue supporting and using the A, B, C, and D beams particularly in conjunction with the H24 and H30 standards.	July 1, 2025
General Update to Multiple Articles	AASHTO article references in BDM article headings were moved from the heading to immediately below the heading to eliminate issues with automatically generating the table of contents in Microsoft Word.	July 1, 2025
Preface, 1.4.1, 6.6.4.1.1.1, 13.3.2	Adopted 2024 AASHTO LRFD BDS 10 <sup>th</sup> Edition. Update CADD Note E50E to specify the 2024 AASHTO LRFD BDS 10th Edition.	July 1, 2025
Preface and Commentary	Moved language about 2024 updates related to lap and development length, new deck thickness, and MASH rail from Preface to the Commentary for a historical record.	July 1, 2025
Preface	Updated contact for aesthetic issues to Matthew Gordy.	July 1, 2025
3.6, 3.6.1.1, 3.6.8, 5.6 and multiple sub	The three span J40-25 continuous concrete slab (CCS) bridge standards accommodate MASH	July 1, 2025

articles, 5.8.1.2.1.1, 5.8.6.1.1, yet been updated for the new MASH railings, but the anticipated release is likely to be no later than January 1, 2026. References to the J24 and J30 standards have been removed.  5.1.1 Removed comment about transition to AASHTO LRFD Specifications.  5.2.4.1.2, 5.6.1.4.1.2, Update fiber reinforcement bid items and references. Add fiber reinforcement requirements for CCS bridges.  5.8.1.2.2, 5.8.1.2.3, Clarified application of pass-through restrictions related to pedestrian railings.  5.8.1.2.2, 5.8.1.2.3 Clarified vertical clearance requirements for curved-top fencing.  5.8.1.2.4 Sh.1.2.5 Updated to indicate standard details are available for the BMBR separation railing as CADD Standard 1028A, 1028SA, and 1029-BIR.  5.8.1.2.5 Clarified limitation on Texas Classic rail for use with a steel bicycle railing attachment.  5.8.1.2.5 Referenced lowa DOT DM Section 8A-6 for ZOI requirements.  5.8.5 Modified article heading from "Reinforcement protection" or "Reinforcement" protection" or "Reinforcement" protection" or "Reinforcement protection" or "Reinforcement protection" or "Reinforcement protection" or "Reinforcement protection" and general protection or "Reinforcement protection" or "Reinforcement" protection or "Reinforcement protection" or "Reinforcement protection" or "Reinforcement" protection or "Reinforcement protection or "Reinforcement" protection or "Reinforcement" protection or "Reinforcement" protection or "Rein			
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S.8.1.2.5   Clarified limitation on Texas Classic rail for use with a steel bicycle railing attachment.		_	
with a steel bicycle railing attachment.           5.8.1.2.5         Referenced Iowa DOT DM Section 8A-6 for ZOI requirements.           5.8.5         Modified article heading from "Reinforcement protection" to "Reinforcement".           5.8.5.2         Stainless steel requirement between barrier rail to bridge deck/wing connections for all state-owned bridges.           5.8.5.3, 5.2.4.1.1.8, 9.4.1.9.         Added new article addressing reinforcement type and grade. Addressed use of 80 ksi rebar.           9.1.1, 9.2, 9.4.2, 9.4.3, 9.4.4, 9.5.5.1         Updated title Aesthetic Bridge Specialist to Bridge Assthetics Coordinator.           9.1.5         Added VCF abbreviation.           9.1.5         Added reference to "Aesthetic Bridges Visual Reference Library".           9.4.2, 9.4.3, 9.4.4., 9.4.5         Modified enhancement budget percentages and additional cost estimating guidance.           9.5.3.11         Corrected caption for Figure 9.5.3.11           9.5.5.2, 9.5.5.3, 9.5.5.4, 9.5.9.6, 9.5.9.8, 9.5.9.2, 9.5.9.3, 9.5.9.4, 9.5.9.6, 9.5.9.8.1, 9.5.9.8.3, 9.5.9.8.4, 9.5.10.2, 9.5.11.1, 9.5.11.2         Added photographic figures.           9.5.10.6         Added clarifying language about vapor permeability and application timing.         July 1, 2025           9.8         Removed references to AASHTO LRFD section         July 1, 2025			* 1 4 - 2
5.8.1.2.5         Referenced Iowa DOT DM Section 8A-6 for ZOI requirements.         July 1, 2025           5.8.5         Modified article heading from "Reinforcement protection" to "Reinforcement".         July 1, 2025           5.8.5.2         Stainless steel requirement between barrier rail to bridge deck/wing connections for all state-owned bridges.         July 1, 2025           5.8.5.3, 5.2.4.1.1.8, 5.2.4.1.2, 5.4.1.4.1.7         Added new article addressing reinforcement type and grade. Addressed use of 80 ksi rebar.         July 1, 2025           9.1.1, 9.2, 9.4.2, 9.4.3, 9.4.4, 9.5.5.1         Updated title Aesthetic Bridge Specialist to Bridge Aesthetics Coordinator.         July 1, 2025           9.1.5         Added VCF abbreviation.         July 1, 2025           9.4.2, 9.4.3, 9.4.4., 9.4.3, 9.4.4., 4.4.         Modified enhancement budget percentages and additional cost estimating guidance.         July 1, 2025           9.5.3.11         Corrected caption for Figure 9.5.3.11         Added photographic figures.           9.5.9.8, 9.5.9.2, 9.5.9.3, 9.5.9.4, 9.5.9.6, 9.5.9.8.1, 9.5.9.8.3, 9.5.9.8.3, 9.5.9.8.3, 9.5.9.8.3, 9.5.9.8.3, 9.5.9.8.3         Added photographic figures.           9.5.10.6         Added clarifying language about vapor permeability and application timing.         July 1, 2025           9.8         Removed references to AASHTO LRFD section         July 1, 2025	5.8.1.2.5		July 1, 2025
ZOI requirements.   Modified article heading from "Reinforcement protection" to "Reinforcement".   July 1, 2025			
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protection" to "Reinforcement".  5.8.5.2 Stainless steel requirement between barrier rail to bridge deck/wing connections for all state-owned bridges.  5.8.5.3, 5.2.4.1.1.8, Added new article addressing reinforcement type and grade. Addressed use of 80 ksi rebar.  9.1.1, 9.2, 9.4.2, 9.4.3, Updated title Aesthetic Bridge Specialist to Bridge Aesthetics Coordinator.  9.1.4 Added VCF abbreviation.  9.1.5 Added reference to "Aesthetic Bridges Visual Reference Library".  9.4.2, 9.4.3, 9.4.4., Modified enhancement budget percentages and additional cost estimating guidance.  9.5.3.11 Corrected caption for Figure 9.5.3.11  9.5.5.2, 9.5.5.3, 9.5.5.4, 9.5.9.6, 9.5.9.8, 9.5.9.2, 9.5.9.3, 9.5.9.8, 9.5.9.8.3, 9.5.9.8.3, 9.5.9.8.3, 9.5.9.8.3, 9.5.9.8.3, 9.5.9.8.3, 9.5.9.8.3, 9.5.9.8.3, 9.5.9.8.3, 9.5.9.8.3, 9.5.9.8.3, 9.5.9.8.3, 9.5.9.8.4 P.5.10.2, 9.5.11.1, 9.5.11.2  9.5.10.6 Added clarifying language about vapor permeability and application timing.  Removed references to AASHTO LRFD section July 1, 2025		ZOI requirements.	
Stainless steel requirement between barrier rail to bridge deck/wing connections for all state-owned bridges.  5.8.5.3, 5.2.4.1.1.8, 5.2.4.1.2, 5.4.1.4.1.7 and grade. Addressed use of 80 ksi rebar.  9.1.1, 9.2, 9.4.2, 9.4.3, 9.4.4, 9.5.5.1 Updated title Aesthetic Bridge Specialist to Bridge Aesthetics Coordinator.  9.1.4 Added VCF abbreviation. July 1, 2025  9.1.5 Added reference to "Aesthetic Bridges Visual Reference Library".  9.4.2, 9.4.3, 9.4.4., Modified enhancement budget percentages and additional cost estimating guidance.  9.5.3.11 Corrected caption for Figure 9.5.3.11  9.5.5.2, 9.5.5.3, 9.5.5.4, 9.5.9.2, 9.5.9.3, 9.5.9.4, 9.5.9.6, 9.5.9.8.1, 9.5.9.8.3, 9.5.9.2, 9.5.9.3, 9.5.9.4, 9.5.9.6, 9.5.9.8.4, 9.5.10.2, 9.5.11.1, 9.5.11.2  9.5.9.2 Minor text correction.  9.8 Removed references to AASHTO LRFD section July 1, 2025	5.8.5	Modified article heading from "Reinforcement	July 1, 2025
to bridge deck/wing connections for all state- owned bridges.  5.8.5.3, 5.2.4.1.1.8, 5.2.4.1.2, 5.4.1.4.1.7  9.1.1, 9.2, 9.4.2, 9.4.3, 9.1.4  Added VCF abbreviation.  9.1.5  Added reference to "Aesthetic Bridges Visual Reference Library".  9.4.2, 9.4.3, 9.4.4., 9.5.3.11  Corrected caption for Figure 9.5.3.11  9.5.5.2, 9.5.5.3, 9.5.5.4, 9.5.9.4, 9.5.9.6, 9.5.9.8.1, 9.5.9.8.3, 9.5.9.8.4, 9.5.10.2, 9.5.11.1, 9.5.11.2  9.5.10.6  Minor text correction.  Duly 1, 2025  July 1, 2025  Added photographic figures.		protection" to "Reinforcement".	
owned bridges.  5.8.5.3, 5.2.4.1.1.8, 5.2.4.1.2, 5.4.1.4.1.7 and grade. Addressed use of 80 ksi rebar.  9.1.1, 9.2, 9.4.2, 9.4.3, 9.4.4, 9.5.5.1 Bridge Aesthetics Coordinator.  9.1.5 Added reference to "Aesthetic Bridges Visual Reference Library".  9.4.2, 9.4.3, 9.4.4., 9.5.3.11 Modified enhancement budget percentages and additional cost estimating guidance.  9.5.3.11 Corrected caption for Figure 9.5.3.11  9.5.5.2, 9.5.5.3, 9.5.5.4, 9.5.9.4, 9.5.9.6, 9.5.9.8.1, 9.5.9.8.3, 9.5.9.8.4, 9.5.10.2, 9.5.11.1, 9.5.11.2  9.5.9.2 Minor text correction.  9.8 Removed references to AASHTO LRFD section  July 1, 2025  July 1, 2025  July 1, 2025  July 1, 2025	5.8.5.2	Stainless steel requirement between barrier rail	July 1, 2025
5.8.5.3, 5.2.4.1.1.8,         Added new article addressing reinforcement type         July 1, 2025           5.2.4.1.2, 5.4.1.4.1.7         and grade. Addressed use of 80 ksi rebar.         July 1, 2025           9.1.1, 9.2, 9.4.2, 9.4.3,         Updated title Aesthetic Bridge Specialist to Bridge Aesthetics Coordinator.         July 1, 2025           9.1.4         Added VCF abbreviation.         July 1, 2025           9.1.5         Added reference to "Aesthetic Bridges Visual Reference Library".         Modified enhancement budget percentages and additional cost estimating guidance.         July 1, 2025           9.5.3.11         Corrected caption for Figure 9.5.3.11         Added photographic figures.           9.5.9, 9.5.9		to bridge deck/wing connections for all state-	
5.2.4.1.2, 5.4.1.4.1.7       and grade. Addressed use of 80 ksi rebar.         9.1.1, 9.2, 9.4.2, 9.4.3, 9.4.4, 9.5.5.1       Updated title Aesthetic Bridge Specialist to Bridge Aesthetics Coordinator.         9.1.4       Added VCF abbreviation.         9.1.5       Added reference to "Aesthetic Bridges Visual Reference Library".         9.4.2, 9.4.3, 9.4.4., 9.4.5       Modified enhancement budget percentages and additional cost estimating guidance.         9.5.3.11       Corrected caption for Figure 9.5.3.11         9.5.5.2, 9.5.5.3, 9.5.5.4, 9.5.9.6, 9.5.9.3, 9.5.9.4, 9.5.9.6, 9.5.9.8.1, 9.5.9.8.3, 9.5.9.8.4, 9.5.10.2, 9.5.11.1, 9.5.11.2       Added photographic figures.         9.5.9.2       Minor text correction.       July 1, 2025         9.5.10.6       Added clarifying language about vapor permeability and application timing.       July 1, 2025         9.8       Removed references to AASHTO LRFD section       July 1, 2025		owned bridges.	
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9.4.2, 9.4.3, 9.4.4.,       Modified enhancement budget percentages and additional cost estimating guidance.         9.5.3.11       Corrected caption for Figure 9.5.3.11         9.5.5.2, 9.5.5.3, 9.5.5.4, 9.5.9.5, 9.5.9.9, 9.5.9.4, 9.5.9.6, 9.5.9.4, 9.5.9.6, 9.5.9.8.1, 9.5.9.8.3, 9.5.9.8.4, 9.5.10.2, 9.5.11.1, 9.5.11.2       July 1, 2025         9.5.9.2       Minor text correction.       July 1, 2025         9.5.10.6       Added clarifying language about vapor permeability and application timing.       July 1, 2025         9.8       Removed references to AASHTO LRFD section       July 1, 2025	· ·		
9.4.5       additional cost estimating guidance.         9.5.3.11       Corrected caption for Figure 9.5.3.11         9.5.5.2, 9.5.5.3, 9.5.5.4, 9.5.9.5.9.3, 9.5.9.4, 9.5.9.2, 9.5.9.3, 9.5.9.8.1, 9.5.9.8.3, 9.5.9.8.4, 9.5.10.2, 9.5.11.1, 9.5.11.2       Added clarifying language about vapor permeability and application timing.         9.5.10.6       Removed references to AASHTO LRFD section       July 1, 2025         9.8       Removed references to AASHTO LRFD section	9.4.2. 9.4.3. 9.4.4	· · · · · · · · · · · · · · · · · · ·	July 1 2025
9.5.3.11       Corrected caption for Figure 9.5.3.11         9.5.5.2, 9.5.5.3, 9.5.5.4, 9.5.9.3, 9.5.9.4, 9.5.9.6, 9.5.9.8.1, 9.5.9.8.3, 9.5.9.8.4, 9.5.10.2, 9.5.11.1, 9.5.11.2       Added photographic figures.         9.5.9.2       Minor text correction.       July 1, 2025         9.5.10.6       Added clarifying language about vapor permeability and application timing.       July 1, 2025         9.8       Removed references to AASHTO LRFD section       July 1, 2025	, , , ,		1020
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2.5.5, which has been omitted from the 2024 10 <sup>th</sup>	9.8		July 1, 2025
<u> </u>		2.5.5, which has been omitted from the 2024 10 <sup>th</sup>	

Edition. Added reference to the "Can-Do Process", Iowa DOT Policy No. 500.02.	