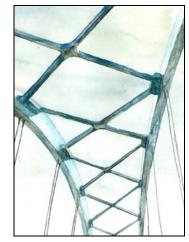


Division of Transportation System Development Bureau of Structures PO Box 7916 Madison, WI 53707-7916







**Standard Details** 

DATE: February 11, 2016 TO: Bridge Manual Users

FROM: DTSD – Bureau of Structures

**SUBJECT:** January 2016 Bridge Manual Update

The Bridge Manual revisions to text and standards are now complete and posted online for this six month cycle. Please see the attached sheets for a list, with brief explanation, of the Text and Standards that were revised. Corresponding plan insert sheets have also been updated and posted online.

Of particular interest in this edition:

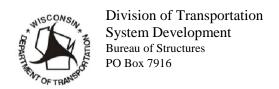
- **Throughout:** Hyperlinks updated to function with new website
- Chapter 4: Aesthetic policy sunset period of August 15, 2016. Revisions with regards to CSS funding, etc. PLEASE READ SECTION 4.5
- **Chapter 6:** 6.2.2.3.2 Elevation view should be shown for new decks and other rehabs as defined in this section.
- Chapter 6: 6.4.12 Calculations given for determining various railing lengths, which have been LF since the implementation of the 2016 Standard Spec. Note: 6.4.19 All expansion devices are going from LS to LF with the 2017 Standard Spec, (Aug., 2016 PS&E).
- Chapter 6: <u>6.6 Structures Data Management and Resources</u> section is new, with information extracted and modified from elsewhere in the chapter. New email of DOTDLDTSDSTRUCTURESRECORDS@DOT.WI.GOV to be used for sending in many different types of shop drawings (not to supersede other processes in place for specific projects).
- **Chapter 8:** Separate design criteria is required for temporary construction causeways than is required for temporary structures.
- **Chapter 13:** 13.11.5 Updated cofferdam information with special attention to pile encased piers.

- <u>New Standard 7.07 Cast-in-Place Bearing Block Details:</u> Details for use on projects utilizing precast pier caps. Option to use precast blocks is also available.
- <u>New Standards 19.50-19.56:</u> New prestressed box girder shapes and details. Chapter 19 text revisions to account for changes, too.
- Below Standard 30.17, pictures have been added for Combination Railings, Type C1-C6.
- Relocated Standard 40.26 Tubular Steel Railing Type 'F': This is Standard 30.01 moved to the Rehabilitation chapter as Type 'F' rails are no longer allowed. This standard is for informational purposes only (e.g. damage repair).
- New Chapter 39 Insert Sheets: Nine new insert sheets for sign structures
- Other insert sheets: Other insert sheets have been updated and/or created for this 6-month cycle. Please make sure that the current insert sheets are being utilized for structures projects.

There is a department wide effort to reduce the number of SPV's and convert, where possible, to Standard Spec or STSP.

Most other changes are relatively minor. If anything in a given chapter was edited, the date for the entire chapter was updated. A vertical black bar in the left margin notes all changes. Previous black bars were not removed from chapters which were not edited in this update.

The user's feedback regarding the Bridge Manual is important to us as that is where we get many ideas for corrections, clarification and new ideas for enhancement.



DATE: February 26, 2016 TO: Bridge Manual Users

FROM: DTSD – Bureau of Structures

**SUBJECT:** February 2016 Bridge Manual Revisions

Chapters 4 and 5 have been revised/updated. These revisions/updates supersede the information provided with the release on February 11<sup>th</sup>.

- Chapter 4: Clarification on the aesthetics policy, with more information given with regard to the sunset date of August 15, 2016. Also includes clarification regarding aesthetic railings and parapets. PLEASE READ SECTION 4.5
- Chapter 5: This chapter was not updated for the February 11<sup>th</sup> release. Cost information is now updated. Individual bid item costs are now only given for items not found in Estimator or Bid Express.

# January 2016 Bridge Manual Text Update Summary

## <u>Page</u> <u>Chapter</u> <u>Number(s)</u> <u>Change</u>

2		
	7	Updated link to "Public Communication Record" form
	12	Clarified what is and is not a culvert (was 25, now 20 SF). Retitled section
		"Structure Numbers"
	17	Updated link to "Special Provisions" for structures
	28	Removed "Strutted Arch Span" from description of B-32-202
	T	Territoria (1971)
4	13	Updated link to "Bridge Aesthetic Sourcebook" document
	9,10	CSS funding policy in effect until August 15, 2016. Also added Type H rail as
		a non-CSS pedestrian rail for on top of a parapet.
	T	Taranta da la companya da la company
5	All	Cost info updated. Only bid items not found on Estimator are shown.
	1 40	Terror e e e e e e e e e e e e e e e e e
6	13	Elevation view required for new bridge decks and other rehabs as listed
	20	Lindated link to "Ctandard Inpart Chapte"
	32	Updated link to "Standard Insert Sheets"  Discusses plan prep for multiple sign structures on a project. Also describes
	32	
	33	what SSR information is needed for painting projects.
		Removed reference to Type "F" railing because it is no longer used.  Railing bid items is now LF (began Aug. 2015 PS&E)
	38	Changing Expansion Device bid items to LF (beginning Aug. 2016 PS&E)
	39	Changing Expansion Device bid items to LF (beginning Aug. 2016 F5&E)
	48	Updated link to "FDM, CMM and Standard Specifications"
	Various	Various updates with regards to hydraulics information, Coast Guard and RR
	Various	requirements. Number of updates regarding information flow and records
		keeping. Of particular interest is the information in new Section 6.6 (some
		information moved from 6.3)
	L	jiiiioiaaan moroa mom o.oj
8	5	Separate hydraulic design criteria is required for temporary construction
J		causeways
	8	Updated link to "DNR Floodplain Analysis Interactive Map"
	51	Updated link to "Flood-Frequency Characteristics of Wisc. Streams"
	<u> </u>	population mineral resources of the second s
9	2	Updated link to "Approved Products List"
	3	Updated structure type to "prestressed box girders"
	9	Removed reference to Type "F" railing because it is no longer used.
		, <u> </u>
11	24	Updated WisDOT Policy Item: For steel H-piles, 50 ksi shall be used for pile
11		1
		design.
	41-42	Updated Table 11.3-5 to include PDA/CAPWAP values
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	41-42 47,49-50	· ·
		Updated Table 11.3-5 to include PDA/CAPWAP values
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19E - 3			
Length Table		15	Corrected WisDOT policy item reference to LRFD[5.4.2.4]
28E - 3		50-51	Updated Prestressed Box Girder Section Properties and Maximum Span
guidance and should be used for informational purposes only"			Length Table
guidance and should be used for informational purposes only"	19E - 3	2	Added disclaimer "Example has not been updated to current Bridge Manual
24E - 1 All Example respaced girders to 10'-0" to reduce overhang. Updated to current AASHTO.  24E - 2 All Splice example updated to match updated girder design. Updated to current AASHTO.  30 2 Added notice to announce that at date shown, bridge railings and transitions that are part of the contract will have to meet the 2016 Edition of MASH criteria  3 Removed reference to Type "F" railing because it is no longer used.  7 Referenced where Type "PP" railing details are to be found.  9,22 Referenced where Type "F" railing details are to be found, and that they are for "Informational Purposes Only."  11 Added text to address pedestrian loads to be used on stairway railings 19,20 Added notes to Table 30.8-1 to announce that at date shown, the compliant document will be the 2016 Edition of MASH  22 Referenced where Type "PP" and "B" railing details are to be found.  23 Corrected numbering scheme in Section 30.9  37 4 Added text to address pedestrian loads to be used on stairway railings  39 3,4,9,10,11. Changed text from "upright(s)" to "tower(s)" or "column(s)" to match terminology in Standards  2 Removed WisDOT policy item, because AASHTO references are in Section 39.2 and 39.4.2  3 Clarified adhesive anchorage usage  5 Updated references to Specifications  6 Updated materials references for chords and columns and added WisDOT policy item on flat washer usage restriction  7 Added WisDOT policy item concerning Type I break-away sign supports; Added information on DMS roadside sign supports; Removed design data table because it is contained in references in new WisDOT policy item for fatigue loading  9 Changed text from "anchor bolts" to "anchor rods" to match terminology in Standards  10 Clarified and repositioned tables in Section 39.4.2; Clarified when standard details can be used vs. designing the sign structure; Updated considerations and recommendations for sign bridges carrying dynamic message signs (DMS)  10 Clarified which Standard Detail Drawings (SDD) become part of the contract plans  14 Moved WisDOT p			
AASHTO.  AAdded notice to announce that at date shown, bridge railings and transitions that are part of the contract will have to meet the 2016 Edition of MASH criteria  3. Removed reference to Type "F" railing because it is no longer used.  7. Referenced where Type "F" railing details are to be found.  9.22 Referenced where Type "F" railing details are to be found, and that they are for "Informational Purposes Only".  11. Added text to address pedestrian loads to be used on stainway railings  19.20 Added notes to Table 30.8-1 to announce that at date shown, the complianc document will be the 2016 Edition of MASH  22 Referenced where Type "PF" and "B" railing details are to be found.  33. Corrected numbering scheme in Section 30.9  34. Added text to address pedestrian loads to be used on stainway railings  39. A.9,10,11. Changed text from "upright(s)" to "tower(s)" or "column(s)" to match terminology in Standards  2 Removed WisDOT policy item, because AASHTO references are in Section 39.2 and 39.4.2  3 Clarified adhesive anchorage usage  5 Updated references to Specifications  6 Updated materials references for chords and columns and added WisDOT policy item on DMS roadside sign supports; Removed design data table because it is contained in references in new WisDOT policy item  7 Added WisDOT policy item concerning Type I break-away sign supports; Added information on DMS roadside sign supports; Removed design data table because it is contained in references in new WisDOT policy item  8 Modified and repositioned tables in Section 39.4.2; Clarified WisDOT policy item for fatigue loading  9 Changed text from "anchor bolts" to "anchor rods" to match terminology in Standards  10 Clarified and hole requirements  12 Defined butterfly type sign bridge and its limitations; Clarified when standard details can be used vs. designing the sign str			
AASHTO.  ARSTON "F" railing heach is no longer used.  Referenced where Type "F" railing details are to be found, and that they are for "Inforrmational Purposes Only".  11	24E - 1	All	Example respaced girders to 10'-0" to reduce overhang. Updated to current
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		14	Clarified intermediate diaphragm guidance for prestressed girder deck
replacements.			·
38 Corrected Secc C-C to be 1.5 Ca1 (was 1.0 Ca1)		38	Corrected Secc C-C to be 1.5 Ca1 (was 1.0 Ca1)
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45	23	Axle spacing for PUP Unit was corrected to 15'-9"
	26	Table reference number changed to 45.5-1 (was incorrect at 45.3-1)
	32	Updated link to "Load Rating Summary Form"
45E - 4	2	Added disclaimer "Note: Example has not been updated for example
		E24-1 January 2016 updates"

Std 15.01 ■ No revisions.

Std 15.02 ■ No revisions.

Std 15.03 ■ No revisions.

#### Chapter 17

Std 17.01 ■ No revisions.

Std 17.02 ■ No revisions.

## Chapter 18

Std 18.01 ■ No revisions.

Std 18.02 ■ No revisions.

## Chapter 19

Std 19.01 • Modified "Notes" to state that epoxy at girder ends is not to be applied to concrete surfaces that will have stain applied.

■ Added to "Designer Notes", a reminder to provide stirrup spacing that is symmetrical about the C/L of girder.

Added to "Notes", a reference to the Standard Specifications for lifting device guidance.

Std 19.02 Added "Designer Notes" as a reminder to highlight strand patterns that apply to designed structure

Std 19.03 • Modified "Notes" to state that epoxy at girder ends is not to be applied to concrete surfaces that will have stain applied.

Added to "Designer Notes", a reminder to provide stirrup spacing that is symmetrical about the C/L of girder.

Added to "Notes", a reference to the Standard Specifications for lifting device guidance.

Std 19.04 Added "Designer Notes" as a reminder to highlight strand patterns that apply to designed structure

Std 19.11 • Modified "Notes" to state that epoxy at girder ends is not to be applied to concrete surfaces that will have stain applied.

■ Added to "Designer Notes", a reminder to provide stirrup spacing that is symmetrical about the C/L of girder.

Added to "Notes", a reference to the Standard Specifications for lifting device guidance.

Std 19.12 Added "Designer Notes" as a reminder to highlight strand patterns that apply to designed structure

Std 19.13 • Modified "Notes" to state that epoxy at girder ends is not to be applied to concrete surfaces that will have stain applied.

Added to "Designer Notes", a reminder to provide stirrup spacing that is symmetrical about the C/L of girder.

Added to "Notes", a reference to the Standard Specifications for lifting device guidance.

Std 19.14 Added "Designer Notes" as a reminder to highlight strand patterns that apply to designed structure

Std 19.15 • Modified "Notes" to state that epoxy at girder ends is not to be applied to concrete surfaces that will have stain applied.

Added to "Designer Notes", a reminder to provide stirrup spacing that is symmetrical about the C/L of girder.

Added to "Notes", a reference to the Standard Specifications for lifting device guidance.

Std 19.16 • Added "Designer Notes" as a reminder to highlight strand patterns

### **January 2016 Standard Details Update Summary**

#### Chapter 4

Std 4.01 ■ No revisions.

#### Chapter 7

Std 7.01 ■ Added 6'-6" min. working width requirement

Std 7.02 ■ Added minimum clear space requirement

Std 7.03 ■ No revisions.

Std 7.04 ■ No revisions.

Std 7.05 Added Contractor Note: the contractor may use precast segements at their discretion and allowance for cast-in-place bearing blocks.

Std 7.06 • Added Contractor Note: Allowance for cast-in-place bearing blocks

**NEW** Std 7.07 ■ Cast-In-Place Bearing Block Details

#### Chapter 11

Std 11.01 ■ No revisions.

## Chapter 12

Std 12.01 ■ No revisions.

Std 12.02 ■ No revisions.

Std 12.03 ■ No revisions.

Std 12.04 ■ No revisions.

Std 12.05 ■ No revisions.

Std 12.06 ■ No revisions.

Std 12.07 ■ No revisions.

Std 12.08 ■ No revisions.

Std 12.09 ■ No revisions.

Std 12.10 Modified tranverse spacing (T507,T508,& T510)

Std 12.11 ■ No revisions.

Std 12.12 ■ No revisions.

Std 12.13 • Corrected approach slab limits and serveral other details.

### **Chapter 13**

Std 13.01 ■ No revisions.

Std 13.02 ■ No revisions.

Std 13.03 ■ Updated cofferdam note

Std 13.04 ■ No revisions.

Std 13.05 ■ No revisions.

Std 13.06 ■ No revisions.

Std 13.07 ■ No revisions.

Std 13.10 ■ No revisions.

Std 13.11 ■ No revisions.

#### Chapter 14

Std 14.01 ■ No revisions.

Std 14.02 ■ No revisions.

Std 14.03 ■ No revisions.

Std 14.04 ■ No revisions.

Std 14.05 ■ No revisions.

### Chapter 15

- that apply to designed structure
- Std 19.17 Modified "Notes" to state that epoxy at girder ends is not to be applied to concrete surfaces that will have stain applied.
  - Added to "Designer Notes", a reminder to provide stirrup spacing that is symmetrical about the C/L of girder.
  - Added to "Notes", a reference to the Standard Specifications for lifting device guidance.
- Std 19.18 Added "Designer Notes" as a reminder to highlight strand patterns that apply to designed structure
- Std 19.19 Modified "Notes" to state that epoxy at girder ends is not to be applied to concrete surfaces that will have stain applied.
  - Added to "Designer Notes", a reminder to provide stirrup spacing that is symmetrical about the C/L of girder.
  - Added to "Notes", a reference to the Standard Specifications for lifting device guidance.
- Std 19.20 Added "Designer Notes" as a reminder to highlight strand patterns that apply to designed structure
- Std 19.31 No revisions.
- Std 19.32 No revisions.
- Std 19.33 No revisions.
- Std 19.34 No revisions.
- Std 19.35 No revisions.
- Std 19.36 Added "Designer Notes" requiring inserts/holes for diaphragm to web connection to also have locations shown from the ends of each girder
- Std 19.37 Added "Designer Notes" requiring inserts/holes for diaphragm to web connection to also have locations shown from the ends of each girder
- Std 19.38 Added "Designer Notes" requiring inserts/holes for diaphragm to web connection to also have locations shown from the ends of each girder
- **NEW** Std 19.50 3'-0" Prestressed Box Girder Sections
- **NEW** Std 19.51 4'-0" Prestressed Box Girder Sections
- **NEW** Std 19.52 Prestressed Box Girder Details 1
- **NEW** Std 19.53 Prestressed Box Girder Details 2
- **NEW** Std 19.54 Prestressed Box Girder Details 3
- NEW Std 19.55 Prestressed Box Girder Details 4
- **NEW** Std 19.56 Prestressed Box Girder Details 5

#### Chapter 23

- Std 23.01 No revisions.
- Std 23.02 No revisions.
- Std 23.03 No revisions.

### Chapter 24

- Std 24.02 No revisions.
- Std 24.03 No revisions.
- Std 24.04 No revisions.
- Std 24.06 No revisions.
- Std 24.08 No revisions.
- Std 24.09 No revisions.
- Std 24.10 No revisions.
- Std 24.11 No revisions.
- Std 24.12 No revisions.

## Chapter 27 Std 27.02 ■ No revisions. Std 27.05 Removed prestressed box girder details. See Standard 19.55. Std 27.06 ■ No revisions. Std 27.07 ■ No revisions. Std 27.08 ■ No revisions. Std 27.09 ■ No revisions. Chapter 28 Std 28.01 ■ No revisions. Std 28.02 ■ No revisions. Std 28.03 ■ No revisions. Std 28.04 ■ No revisions. Std 28.05 ■ No revisions. Std 28.06 ■ No revisions. Std 28.07 ■ No revisions. Std 28.08 ■ No revisions. Chapter 29 Std 29.01 • Added note that downspout extension is not to be used over railroads, and that Railroads and Harbors Section should be contacted for guidance Std 29.02 • Added note that downspout extension is not to be used over railroads, and that Railroads and Harbors Section should be contacted for guidance Std 29.03 • Added note that downspout extension is not to be used over railroads, and that Railroads and Harbors Section should be contacted for guidance Chapter 30 Std 30.01 Removed this Standard from Chapter 30 and placed in Chapter 40 as Standard 40.26. It can no longer be used and is shown for informational purposes only. Std 30.02 ■ Changed "General Notes" to "Notes" Std 30.04 ■ Changed "General Notes" to "Notes" Std 30.05 ■ Changed "General Notes" to "Notes" Std 30.07 Deleted arrow from detail "At Sidewalk or Deck Section C" ■ Type H is allowed for pedestrian/bicyle use by FHWA exception (rail spacing slightly exceeds 6") Std 30.08 ■ No revisions. Std 30.09 Added note to place paint Color Name on plans along with the Federal Color Number. Std 30.10 Enhanced detail for 'Adhesive Anchor Connection' Std 30.11 ■ No revisions. Std 30.12 ■ No revisions. Std 30.13 ■ No revisions. Std 30.14 ■ No revisions. Std 30.15 Added note to place paint Color Name on plans along with the Federal Color Number. Std 30.16 Removed note concerning bar adjacent to drip groove. Added note to place paint Color Name on plans along with the Federal Color Number. Std 30.17 ■ No revisions.

Std 30.18 Added note to place paint Color Name on plans along with the Federal

Color Number.

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Std 30.19 ■ No revisions.
       Std 30.20 ■ No revisions.
       Std 30.21 ■ No revisions.
       Std 30.24 ■ No revisions.
       Std 30.25 ■ Changed "General Notes" to "Notes"
       Std 30.26 Removed note concerning bar adjacent to drip groove.
                  Added note to place paint Color Name on plans along with the Federal
                     Color Number.
       Std 30.27 ■ Removed note concerning bar adjacent to drip groove.
                  Added note to place paint Color Name on plans along with the Federal
                     Color Number.
       Std 30.28 ■ No revisions.
       Std 30.29 ■ No revisions.
       Std 30.30 ■ No revisions.
       Std 30.31 ■ No revisions.
       Std 30.32 ■ No revisions.
       Std 30.33 ■ No revisions.
       Std 30.34 ■ No revisions.
       Std 30.35 ■ No revisions.
       Std 30.36 ■ No revisions.
       Std 30.37 ■ No revisions.
Chapter 36
       Std 36.01 ■ No revisions.
       Std 36.02 ■ Added note to require epoxy coated bar steel in culvert wingwalls
                     and wingwall dowels.
       Std 36.03 ■ No revisions.
       Std 36.04 ■ No revisions.
       Std 36.05 ■ No revisions.
       Std 36.06 ■ No revisions.
       Std 36.07 ■ No revisions.
       Std 36.08 ■ No revisions.
       Std 36.10 ■ No revisions.
       Std 36.11 ■ No revisions.
       Std 36.12 ■ No revisions.
       Std 36.13 ■ No revisions.
       Std 36.14 ■ No revisions.
       Std 36.15 ■ No revisions.
       Std 36.16 ■ No revisions.
Chapter 37
       Std 37.01 ■ No revisions.
       Std 37.02 ■ No revisions.
Chapter 38
       Std 38.01 ■ No revisions.
Chapter 39
       Std 39.01 ■ Removed 1/15
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Removed tables and placed on new Insert Sheets.
 Std 39.03 Added/modified text for clarity and to match new Insert Sheets.

Std 39.02 ■ Added/modified text for clarity and to match new Insert Sheets.

- Removed tables and placed on new Insert Sheets.
- Std 39.09 Added/modified text for clarity and to match new Insert Sheets.
- Std 39.10 Added/modified text for clarity and to match new Insert Sheets.
  - Removed tables and placed on new Insert Sheets.
- Std 39.11 Added/modified text for clarity and to match new Insert Sheets.
- Std 39.12 Added/modified text for clarity and to match new Insert Sheets.
- Std 39.13 Added/modified text for clarity and to match new Insert Sheets.

## Chapter 40

- Std 40.01 No revisions.
- Std 40.02 No revisions.
- Std 40.03 No revisions.
- Std 40.04 No revisions.
- Std 40.05 No revisions.
- Std 40.06 No revisions.
- Std 40.07 No revisions.
- Std 40.08 No revisions.
- Std 40.09 No revisions.
- Std 40.10 No revisions.
- Std 40.11 No revisions.
- Std 40.12 No revisions.
- Std 40.13 Modified "Notes" to state that epoxy at girder ends is not to be applied to concrete surfaces that will have stain applied.
- Std 40.14 No revisions.
- Std 40.15 No revisions.
- Std 40.16 No revisions.
- Std 40.17 Modified "Notes" to state that epoxy at girder ends is not to be applied to concrete surfaces that will have stain applied.
- Std 40.18 No revisions.
- Std 40.19 Modified "Notes" to state that epoxy at girder ends is not to be applied to concrete surfaces that will have stain applied.
- Std 40.20 No revisions.
- Std 40.21 No revisions.
- Std 40.22 No revisions.
- Std 40.23 No revisions.
- Std 40.24 Corrected Standard referenced under "Designer Notes"
- Std 40.25 No revisions.
- Std 40.26 Moved Standard 30.01 to Chapter 40. Standard kept for "Informational Purposes Only"
- Std 40.31 No revisions.
- Std 40.33 No revisions.
- Std 40.33 No revisions.