



**MINUTES
OF
IOWA DOT SPECIFICATION COMMITTEE MEETING**

April 8, 2021

Members Present:	Darwin Bishop Roger Boulet Donna Buchwald Mark Dunn Daniel Harness Eric Johnsen, Secretary Wes Musgrove Scott Nixon Mike Nop Tom Reis, Chair Willy Sorensen	District 3 - Construction District 6 - Materials Local Systems Bureau Contracts & Specifications Bureau Design Bureau Contracts & Specifications Bureau Construction & Materials Bureau District 1 - Construction Bridges & Structures Bureau Contracts & Specifications Bureau Traffic & Safety Bureau
Members Not Present:	Charlie Purcell	Project Delivery Division
Advisory Members Present:	Lisa McDaniel Jeff DeVries Thomas Rohe	FHWA Construction & Materials Bureau Plymouth County

The Specification Committee met on Thursday, April 8, 2021, at 9:00 a.m. Tom Reis, Specifications Engineer, opened the meeting. The items were discussed in accordance with the agenda dated March 25, 2021:

The minutes are as follows:

1. Article 1105.03, E, Submittals (Working Drawings).

The Construction and Materials Bureau requested to add transparent stay-in-place deck forms to the working drawings review table.

2. Article 2407.03, H, 4, Precast Transfer.

The Construction and Materials Bureau requested to remove conflicts between this article and Materials I.M. 570.

3. Article 2528.03, F, Arrow Boards.

The Traffic and Safety Bureau requested to require remote communications for arrow boards used on the primary system.

4. Article 4120.04, Granular Surfacing and Granular Shoulder Aggregate.

The Construction and Materials Bureau requested to update Class A crushed stone quality requirements.

5. Article 4155.05, B, Blockouts.

The Design Bureau requested to update specification to follow current practice for MASH compliant blockouts.

Additional Item:

Tom reminded the committee that the May 13th meeting is the last one to get items included for the October 19th General Supplemental Specification. Items for the May 13th meeting are due on April 26th.

Form 510130 (08-15)



SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Wes Musgrove / Jesse Peterson		Office: Construction & Materials	Item 1
Submittal Date: April 2021		Proposed Effective Date: October 2021	
Article No.: 1105.03, E Title: Submittals (Review Bureaus for Working Drawings)		Other:	
Specification Committee Action: Approved as recommended.			
Deferred:	Not Approved:	Approved Date: 4/8/2021	Effective Date: 10/19/2021
Specification Committee Approved Text: See Specification Section Recommended Text.			
Comments: None.			
Specification Section Recommended Text: 1105.03, E, Submittals			
Add the line to Table 1105.03-1:			
DESCRIPTION	REVIEW BUREAU	REVIEW TIME	
Transparent Stay-In-Place Deck Forms	Bridges and Structures	30	
Comments:			
Member's Requested Change: (Do not use 'Track Changes', or 'Mark-Up'. Use Strikeout and Highlight .)			
Please add the following to Table 1105.03-1 Column titles have been supplied as guides but the whole table is not included.			
DESCRIPTION	REVIEW BUREAU	REVIEW TIME	
Transparent Stay-In-Place Deck Forms	Bridges and Structures	30	
Reason for Revision: To update Table 1105.03-1 to include a new submittal that requires review. This update will help the Districts to know who the submittal should be routed to for review.			
New Bid Item Required (X one)	Yes	No	x
Bid Item Modification Required (X one)	Yes	No	x
Bid Item Obsolescence Required (X one)	Yes	No	x
Comments:			
County or City Comments:			
Industry Comments:			

Form 510130 (08-15)



SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Mahbub Khoda / Wes Musgrove		Office: Construction & Materials	Item 2
Submittal Date:		Proposed Effective Date: October 2021	
Article No.: 2407.03, H, 4 Title: Prestress Transfer		Other:	
Specification Committee Action: Approved as recommended.			
Deferred:	Not Approved:	Approved Date: 4/8/2021	Effective Date: 10/19/2021
Specification Committee Approved Text: See Specification Section Recommended Text.			
Comments: Construction and Materials was in favor of the Materials I.M. reference to make things cleaner and keep from stating any requirements more than once.			
Specification Section Recommended Text: 2407.03, H, 4.			
Replace the Article: Measure the initial camber due to prestress while the beam is on the bed by checking the beam profile within three hours after prestress transfer according to Materials I.M. 570.			
Comments:			
Member's Requested Change: (Do not use 'Track Changes', or 'Mark-Up'. Use Strikeout and Highlight.) 2407.03.H.4. Measure the camber due to prestress while the beam is on the bed by checking the beam profile within three hours after prestress transfer. Within three hours after prestress transfer lift the entire beam and reset it back on the precasting bed or on blocking in a holding area or in the storage yard and measure the elevation of the beam using survey equipment at the flat surfaces of the top of the top flange. Beams must be supported at the beam ends for survey shots.			
Reason for Revision: To remove the conflicts between spec 2407 and IM 570			
New Bid Item Required (X one)	Yes	No X	
Bid Item Modification Required (X one)	Yes	No X	
Bid Item Obsolescence Required (X one)	Yes	No X	
Comments:			
County or City Comments: None			
Industry Comments: None			

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SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Willy Sorenson	Office: Traffic & Safety	Item 3
Submittal Date: 3/22/2021	Proposed Effective Date: Oct. 2021	
Article No.: 2528.03, F Title: Arrow Boards	Other:	

Specification Committee Action: Approved with changes.

Deferred:	Not Approved:	Approved Date: 4/8/2021	Effective Date: 10/19/2021
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Specification Committee Approved Text:

2528.03, F, 2, Remote Communications.

Replace the Article:

When using an Arrow Board for stationary work zones on the Interstate or Primary roadways System, remote communication capabilities meeting requirements of [Article 4188.10, F](#) are required.

2528.03, F, 4, Testing and Configuration.

Replace the Article:

On Interstate or Primary roadways projects, at least 1 week before Arrow Board is deployed to a project, a testing and configuration process shall be performed with the Engineer.

Comments: There was some concern about being consistent on references to the Interstate and Primary Highway systems.

Specification Section Recommended Text:

2528.03, F, 2, Remote Communications.

Replace the Article:

When using an Arrow Board for stationary work zones on the Interstate or Primary Highway System, remote communication capabilities meeting requirements of [Article 4188.10, F](#) are required.

2528.03, F, 4, Testing and Configuration.

Replace the Article:

On Interstate or Primary Highway projects, at least 1 week before Arrow Board is deployed to a project, a testing and configuration process shall be performed with the Engineer.

Comments:

Member's Requested Change: (Do not use 'Track Changes', or 'Mark-Up'. Use Strikeout and Highlight.)

CUTTING AND PASTING FROM THE MSWORD FILES ON THE 'W' DRIVE IS THE BEST METHOD

TO ENSURE THE MOST CURRENT TEXT IS USED. DO NOT USE 'TRACK CHANGES' IN MSWORD, INSTEAD USE HIGHLIGHT AND STRIKETHROUGH FROM THE TOOL BAR.

F. Arrow Boards.

1. Operation.

When indicating a right or left lane closure, operate in a sequential chevron mode.

When indicating a traffic split, operate in a flashing double arrow mode.

When indicating caution, operate in an alternating diamond mode.

2. Remote Communications.

When using an Arrow Board for stationary work zones on the Interstate **or Primary Highway** System, remote communication capabilities meeting requirements of [Article 4188.10, F](#) are required.

3. Type and Size.

Type C Arrow Boards as defined in Part 6 of the MUTCD are required for all applications.

4. Testing and Configuration.

On Interstate **or Primary Highway** projects, at least 1 week before Arrow Board is deployed to a project, a testing and configuration process shall be performed with the Engineer.

Reason for Revision: Starting last October ('20), all arrow boards used on the Interstate system must have the ability to determine their GPS coordinates and transmit its location as well as display status to a central server. This spec change (starting October '21) adds the remainder of all DOT roadways where an arrow board would be used. These specs (in conjunction with 4188.10) do that.

New Bid Item Required (X one)	Yes	No x
Bid Item Modification Required (X one)	Yes	No x
Bid Item Obsolescence Required (X one)	Yes	No x

Comments: DOT has been working with Industry on this change for over 2 years.

County or City Comments:

Industry Comments:



SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Wes Musgrove / Bob Dawson	Bureau: Construction & Materials	Item 4
Submittal Date:	Proposed Effective Date: October 2021	
Article No.: 4120.04 Title: Granular Surfacing and Granular Shoulder Aggregate		

Specification Committee Action: Approved as recommended.

Deferred:	Not Approved:	Approved Date: 4/8/2021	Effective Date: 10/19/2021
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Specification Committee Approved Text: See Specification Section Recommended Text.

Comments: None.

Specification Section Recommended Text:
4120.04, Class A Crushed Stone.

Replace Table 4120.04-1:

Table 4120.04-1: Coarse Aggregate Quality (Class A Crushed Stone)

Coarse Aggregate Quality	Maximum Percent Allowed	Test Method
Abrasion	45	AASHTO T 96
C Freeze	15	Office of Materials Test Method No. Iowa 211, Method C
Clay Lumps and Friable Particles	4.0	Materials I.M. 368
Note: For shoulders Granular Shoulder Aggregate only, the abrasion limits may be raised to 55 if Alumina does not exceed 0.7 or A Freeze does not exceed 10 is 50.		

Comments:

Actions: Change abrasion to 50 for shoulder stone and modify the note that allows abrasion of 55 if A-Freeze and alumina meet some quality requirements.

Section 4120.04 Granular Surfacing and Granular Shoulder Aggregate

Table 4120.04-1: Coarse Aggregate Quality (Class A Crushed Stone)

Coarse Aggregate Quality	Maximum Percent Allowed	Test Method
Abrasion	45	AASHTO T 96
C Freeze	15	Office of Materials Test Method No. Iowa 211, Method C
Clay Lumps and Friable Particles	4.0	Materials I.M. 368

<p>Note: For shoulders Granular Shoulder Aggregate only, the abrasion limits may be raised to is 50 55 if Alumina does not exceed 0.7 or A Freeze does not exceed 10.</p>		
<p>Reason for Revision: Recommended by Iowa Dot Materials Inspectors. This is a confusing specification for contractors. This is a good compromise to eliminate the ether/or for abrasion and will parallel changes made to the Modified Subbase specification.</p>		
New Bid Item Required (X one)	Yes	No x
Bid Item Modification Required (X one)	Yes	No x
Bid Item Obsolescence Required (X one)	Yes	No x
Comments:		
County or City Comments:		
Industry Comments		

Form 510130 (08-15)



SPECIFICATION REVISION SUBMITTAL FORM

Submitted by: Mike Kennerly / Daniel Harness		Office: Design	Item 5
Submittal Date: 2/18/2021		Proposed Effective Date: 10/19/2021	
Article No.: 4155.05, B Title: Blockouts		Other:	
Specification Committee Action: Approved with changes.			
Deferred:	Not Approved:	Approved Date: 4/8/2021	Effective Date: 10/19/2021
Specification Committee Approved Text: 4155.05, B, Blockouts. Replace the Article: Blockouts manufactured from alternate materials that have received FHWA acceptance for use on the National Highway System and complying with Materials I.M. 455.02 may be substituted for wood blockouts.			
Comments: The Design Bureau had some changes to be consistent with the Department's acceptance of Mash compliant products. The Materials I.M. will include an appendix of approved products to be listed in MAPLE that will be MASH compliant.			
Specification Section Recommended Text: 4155.05, B, Blockouts. Replace the Article: MASH 2016 compliant Bblockouts manufactured from alternate materials that have received FHWA acceptance for use on the National Highway System eligibility letters may be substituted for wood blockouts.			
Comments:			
Member's Requested Change: (Do not use 'Track Changes', or 'Mark-Up'. Use Strikeout and Highlight.) 4155.05, B, Blockouts. Replace the article: MASH 2016 compliant Bblockouts manufactured from alternate materials that have received FHWA acceptance eligibility lettersfor use on the National Highway System may be substituted for wood blockouts.			
Reason for Revision: To follow current practice. FHWA now lists items that are eligible for funding rather than approved for use. States decide what is approved for use.			
New Bid Item Required (X one)	Yes	No X	
Bid Item Modification Required (X one)	Yes	No X	
Bid Item Obsolescence Required (X one)	Yes	No X	
Comments:			

County or City Comments:
Industry Comments: