

IOWA DEPARTMENT OF TRANSPORTATION

To Office: Specification Committee Date: June 29, 2026
Attention: Ref. No.: 305
From: Eric Johnsen, P.E.
Office: Specifications
Subject: Agenda for July 9, 2026, Specification Committee Meeting

The Specification Committee will meet on Thursday, July 9, 2026, at 9:00 a.m. in the Modal

The agenda is as follows:

- 1. Article 2318.03, F; Cold-in-Place Recycled Asphalt Pavement. The Construction and Materials Bureau requests to specify the total thickness of the CIR layer.
2. Article 4156.02, C; Glass Fiber Reinforced Polymer Dowel Bars. The Construction and Materials Bureau requests to reference the new ASTM for GFRP dowel bars.
3. DS-23078; High Performance Thin Lift Overlay. The Construction and Materials and Maintenance Bureaus request to add a cold weather provision to the Developmental Specification.
4. Discuss how predetermined prices are presented. Some are included in the Standard Specifications and some are shown in BidX.

Table with 3 columns: ITEM, UNIT, PRICE. Title: PREDETERMINED UNIT PRICES. Effective: 03/17/2026 Letting. Includes items like FLAGGER (Statewide Rate), PILOT CAR (Statewide Rate), FLAGGER (Scott County Rate), PILOT CAR (Scott County Rate), WATERING FOR SOD, SPECIAL DITCH CONTROL, OR SLOPE PROTECTION, MOBILIZATION FOR WATERING, SEALER MATERIAL (HMA SURFACES), SEALER MATERIAL (PCC PAVEMENT).

Form 510130 (07-24)



**SPECIFICATION REVISION SUBMITTAL FORM**

|  |                      |  |                        |
|--|----------------------|--|------------------------|
| <b>Submitted by:</b> Nixon/ Johnson  |                      | <b>Bureau/Office:</b> Construction and Materials | <b>Item 1</b>          |
| <b>Submittal Date:</b> 06-15-2026  |                      | <b>Proposed Effective Date:</b> April 2027       |                        |
| <b>Article No.:</b> Section 2318.03, F, 2<br><b>Title:</b> Cold in-Place Recycled Asphalt Pavement   |                      | <b>Other:</b>                                    |                        |
| <b>Specification Committee Action:</b>   |                      |  |                        |
| <b>Deferred:</b>   | <b>Not Approved:</b> | <b>Approved Date:</b>                            | <b>Effective Date:</b> |
| <b>Specification Committee Approved Text:</b>  |                      |  |                        |
| <b>Comments:</b>   |                      |  |                        |
| <b>Specification Section Recommended Text:</b><br>2318.03, F, 2.<br><br>Replace the third sentence:<br>Ensure <del>lift</del> total thickness is a minimum of <del>2</del> 3 inches.   |                      |  |                        |
| <b>Comments:</b>   |                      |  |                        |
| <b>Member's Requested Change:</b> (Do not use 'Track Changes', or 'Mark-Up'. Use <del>Strikeout</del> and <del>Highlight</del> .)  |                      |  |                        |
| <p><b>F. Placement of the Recycled Material.</b></p> <ol style="list-style-type: none"> <li>1. Deposit CIR mixture in a windrow, into a spreader or paver (as required by <a href="#">Article 2318.03, A</a>), or load into trucks, without segregation.</li> <li>2. Place and finish CIR mixture in one continuous pass, without segregation. Ensure the surface of the CIR lift has a uniform cross-slope as specified in the contract documents. Ensure <del>lift</del> total thickness is a minimum of <del>2</del> 3 inches. If using a pick-up machine to feed the windrow into the paver hopper, ensure it is capable of picking up the entire windrow to the underlying material.</li> </ol> |                      |  |                        |
| <b>Reason for Revision:</b> We would like to have at least 3" of existing HMA to recycle. The previous language alludes to allowing 2 inches total of recycled material and we don't typically do multi-lift CIR   |                      |  |                        |
| <b>New Bid Item Required (X one)</b>   | <b>Yes</b>           | <b>No X</b>                                      |                        |
| <b>Bid Item Modification Required (X one)</b>  | <b>Yes</b>           | <b>No X</b>                                      |                        |
| <b>Bid Item Obsolescence Required (X one)</b>  | <b>Yes</b>           | <b>No X</b>                                      |                        |
| <b>Comments:</b>   |                      |  |                        |
| <b>County or City Comments:</b> Sent to counties for comments.   |                      |  |                        |
| <b>Industry Comments:</b> Agreed with 3" minimum   |                      |  |                        |

Form 510130 (08-15)



**SPECIFICATION REVISION SUBMITTAL FORM**

|   |                      |  |                        |
|---|----------------------|--|------------------------|
| <b>Submitted by:</b> Scott Nixon  |                      | <b>Office:</b> Construction & Materials Bureau | <b>Item 2</b>          |
| <b>Submittal Date:</b> 6/22/26  |                      | <b>Proposed Effective Date:</b> April 2027     |                        |
| <b>Article No.:</b> 4156.02, C<br><b>Title:</b> Glass Fiber Reinforced Polymer Dowel Bars   |                      | <b>Other:</b>                                  |                        |
| <b>Specification Committee Action:</b>  |                      |  |                        |
| <b>Deferred:</b>  | <b>Not Approved:</b> | <b>Approved Date:</b>                          | <b>Effective Date:</b> |
| <b>Specification Committee Approved Text:</b>   |                      |  |                        |
| <b>Comments:</b>  |                      |  |                        |
| <b>Specification Section Recommended Text:</b><br>4156.02, C.   |                      |  |                        |
| <p><b>Replace the Article:</b><br/>Consisting of a single nonmetallic material meeting ASTM D8444 and the following requirements:</p> <ol style="list-style-type: none"> <li><del>1. Glass fiber content greater than 70%, per ASTM D2584.</del></li> <li><del>2. Glass transition midpoint temperature <math>\geq 212^{\circ}\text{F}</math>, per ASTM E1356.</del></li> <li><del>3. Long term absorption at <math>122^{\circ}\text{F} \leq 1.0\%</math>, per ASTM D570.</del></li> <li><del>4. Transverse shear strength <math>\geq 19,000</math> psi, per ASTM D7617.</del></li> <li><del>5. Mean tensile modulus of elasticity <math>\geq 6,500,000</math> psi ASTM D7205.</del></li> <li><b>1. 6.</b> No deformation, burrs, or projections on ends of cut dowels.</li> <li><b>2. 7.</b> Uncoated diameter measured at both ends and third points with the average not to exceed -1/16 inch of specified diameter.</li> <li><b>3. 8.</b> Uncoated length measured end to end not to exceed <math>\pm 1/4</math> inch of specified length.</li> <li><b>4. 9.</b> Average approach and leave section deflections not to exceed 7.5 mils at 1 million cycles and not to increase by more than 3.5 mils at 10 million cycles when tested according to Annex A of ACPA T253 PTM No. 642.</li> </ol> |                      |  |                        |
| <b>Comments:</b>  |                      |  |                        |
| <b>4156. 02 GENERAL REQUIREMENTS.</b>   |                      |  |                        |
| <b>A.</b> Use the size and type specified in the contract documents. Meet the requirements for the type and use specified.  |                      |  |                        |

- B. Approved manufacturers and suppliers are listed in [Materials I.M. 451.03B, Appendix C](#).
- C. Consisting of a single nonmetallic material meeting ASTM D8444 and the following requirements:
- ~~1. Glass fiber content greater than 70%, per ASTM D2584.~~
  - ~~2. Glass transition midpoint temperature  $\geq 212^{\circ}\text{F}$ , per ASTM E1356.~~
  - ~~3. Long term absorption at  $122^{\circ}\text{F} \leq 1.0\%$ , per ASTM D570.~~
  - ~~4. Transverse shear strength  $\geq 19,000$  psi, per ASTM D7617.~~
  - ~~5. Mean tensile modulus of elasticity  $\geq 6,500,000$  psi ASTM D7205.~~
  6. No deformation, burrs, or projections on ends of cut dowels.
  7. Uncoated diameter measured at both ends and third points with the average not to exceed  $-1/16$  inch of specified diameter.
  8. Uncoated length measured end to end not to exceed  $\pm 1/4$  inch of specified length.
  9. Average approach and leave section deflections not to exceed 7.5 mils at 1 million cycles and not to increase by more than 3.5 mils at 10 million cycles when tested according to Annex A of ACPA T253 PTM No. 642.

**Reason for Revision:** Update 4156 with New ASTM D8444 for GFRP used for load transfer between concrete slabs

|   |            |             |
|---|------------|-------------|
| <b>New Bid Item Required (X one)</b>          | <b>Yes</b> | <b>No X</b> |
| <b>Bid Item Modification Required (X one)</b> | <b>Yes</b> | <b>No X</b> |
| <b>Bid Item Obsolescence Required (X one)</b> | <b>Yes</b> | <b>No X</b> |

**Comments:**

**County or City Comments:**

**Industry Comments:** Sent to ICPA/IRMCA

Form 510130 (08-15)



**SPECIFICATION REVISION SUBMITTAL FORM**

|  |                      |  |                        |
|--|----------------------|--|------------------------|
| <b>Submitted by:</b> Scott Nixon/Brian Johnson   |                      | <b>Office:</b> CMB   | <b>Item 3</b>          |
| <b>Submittal Date:</b> 6-04-2026   |                      | <b>Proposed Effective Date:</b> September 15, 2026         |                        |
| <b>Article No.:</b><br><b>Title:</b>   |                      | <b>Other:</b> DS-23078, High Performance Thin Lift Overlay |                        |
| <b>Specification Committee Action:</b>   |                      |  |                        |
| <b>Deferred:</b>   | <b>Not Approved:</b> | <b>Approved Date:</b>                                      | <b>Effective Date:</b> |
| <b>Specification Committee Approved Text:</b>  |                      |  |                        |
| <b>Comments:</b>   |                      |  |                        |
| <b>Specification Section Recommended Text:</b> See attached draft Developmental Specifications for High Performance Thin Lift Overlay.   |                      |  |                        |
| <b>Comments:</b>   |                      |  |                        |
| <b>Member's Requested Change:</b> (Do not use 'Track Changes', or 'Mark-Up'. Use <del>Strikeout</del> and <b>Highlight</b> .)<br><b>See Attachment</b>                                       |                      |  |                        |
| <b>Reason for Revision:</b> We added a cold weather section to the DS. This mix does not do well in cold temperatures. We are trying to clear up temperature limits and cold weather paving. |                      |  |                        |
| <b>New Bid Item Required (X one)</b>   | <b>Yes</b>           | <b>No X</b>  |                        |
| <b>Bid Item Modification Required (X one)</b>  | <b>Yes</b>           | <b>No X</b>  |                        |
| <b>Bid Item Obsolescence Required (X one)</b>  | <b>Yes</b>           | <b>No X</b>  |                        |
| <b>Comments:</b>   |                      |  |                        |
| <b>County or City Comments:</b>  |                      |  |                        |
| <b>Industry Comments:</b>  |                      |  |                        |

**DRAFT DS- 23XXX**  
**(Replace DS-23078)**



**DEVELOPMENTAL SPECIFICATIONS  
 FOR  
 HIGH PERFORMANCE THIN LIFT OVERLAY**

**Effective Date**  
**September 15, 2026**

**THE STANDARD SPECIFICATIONS, SERIES 2023, ARE AMENDED BY THE FOLLOWING MODIFICATIONS AND ADDITIONS. THESE ARE DEVELOPMENTAL SPECIFICATIONS AND THEY PREVAIL OVER THOSE PUBLISHED IN THE STANDARD SPECIFICATIONS.**

**23XXX.01 DESCRIPTION.**

These specifications describe requirements for a highly polymer modified asphalt thin lift surface course. Apply [Section 2303](#) of the Standard Specifications unless otherwise directed in these specifications.

**23XXX.02 MATERIALS.**

**A. Asphalt Binder.**

Use PG 64-34E+ with a minimum percent recovery of 90% when tested at 64°C per AASHTO T 350 at 3.2 kPa.

**B. Mix Design.**

**1. General.**

**Table DS-23XXX.02-1: Mix Design**

| <b>Test or Quality</b>              | <b>Value</b> |
|-------------------------------------|--------------|
| Design Gyration                     | 50           |
| Design Voids Target (Based on %Gmm) | ≤2.0         |
| Film Thickness                      | 8.0 – 15.0   |
| Aggregate Quality                   | A            |
| Crushed Content (minimum)           | 50%          |
| FAA (minimum)                       | 40           |
| Sand Equivalency (minimum)          | 50           |

**2. Friction Aggregate.**

- Interstates: minimum 30% of Total Aggregate shall be Type 2 or better
- Non-Interstates: minimum 50% of Total Aggregate shall be Type 4 or better

**3. Hamburg Testing (AASHTO T324).**

Required only for Interstate paving mixes. Compact to 3.5% air voids. No more than 6.00 mm rutting in the first 8000 passes.

4. Do not use more than 15.0% binder replacement. Do not use RAS.

**5. Gradation.**

**Table DS-23XXX.02-2: Thin Lift Overlay Gradation**

| Sieve Size | Min % Passing | Max % Passing |
|------------|---------------|---------------|
| 1½ inch    |               |               |
| 1 inch     |               |               |
| 3/8 inch   | 91            | 100           |
| #4         |               | 90            |
| #8         | 27            | 63            |
| #16        |               |               |
| #30        |               |               |
| #50        |               |               |
| #100       |               |               |
| #200       | 2             | 10            |

**23XXX.03 CONSTRUCTION.**

- A. Apply tack coat prior to placement of thin lift overlay according to [Section 2303](#) of the Standard Specifications.
- B. Keep the production temperature of HMA mixtures between 225°F and 335°F until placed on the grade.
- C. Compact with static steel wheeled roller.
- D. Do not open to traffic until the entire mat has cooled below 150°F.

**E. Cold Weather Paving.**

- 1. Do not pave when the road temperature is less than 40°F.
- 2. If the Contractor chooses to work when the National Weather Service forecast for the construction area predicts ambient air temperature less than 55°F within 24 hours of the projected time of paving, submit a cold weather paving plan to the Engineer. Document material, operational, and equipment changes for paving.
- 3. Include the following in the cold weather plan:
  - Use an approved mix design that incorporates a warm mix additive. Do not use water injection (foamed asphalt).
  - Identify warm mix additive and dosage rate.
  - Identify modifications to compaction process and when modifications apply.
- 4. Engineer may further limit placement if, in the Engineer’s judgment, other conditions are detrimental to quality work.

**F. ~~E~~ Quality Assurance/Quality Control.**

- 1. **Field Voids Acceptance.**  
Acceptance for field voids shall be based on visual field observations. Should problems be

observed, the Engineer may require density gauge readings to verify field voids are less than or equal to 2%.

**2. Lab Voids Acceptance.**

Sample from windrow or hopper. Apply [Article 2303.05, A, 3, a, 3](#), of the Standard Specifications for AAD acceptance. Air void target is based on approved JMF.

3. Take at least one cold feed for gradation control each day of production.

**23XXX.04 METHOD OF MEASUREMENT.**

Hot Mix Asphalt Thin Lift Overlay will be measured according to [Article 2303.04](#) of the Standard Specifications.

**23XXX.05 BASIS OF PAYMENT.**

Hot Mix Asphalt Thin Lift Overlay will be paid for according to [Article 2303.05](#) of the Standard Specifications.