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| REVIEW OF NEW SPECIFICATION OR SPECIFICATION CHANGE | | | | 702-26 |
| **Specification Section No.:** 702 | | | **Item:** Bituminous Materials | |
| **Originating Office:** Materials and Geotechnical | | | **By:** Stanford | |
| **Date Sent For Review:** March 9, 2017 | | | **Date Comments Due: April 6, 2017** | |
| Submit response to: STANDARDS AND SPECIFICATIONS UNIT, DIVISION OF PROJECT SUPPORT 4TH FLOOR, CDOT HEADQUARTERS | | | | |
| **Vote**  **/N** | **Concurrent Reviews – Others Commenting** | | The attached Draft Specification is submitted for your review and comments. If not returned by Date Comments Due, the draft specification will be considered to be approved unless the Standards and Specifications Unit of the Project Development Branch [(303) 757-9474, (303) 757-9402] is advised otherwise.  **REMARKS:**  If these proposed changes are approved, our unit will issue these in a new pilot project special provision. | |
|  | **Spec Committee Members:** | **✓** |
|  | Co-Chairman: Lacey |  |
|  | Region 1: Quirk |  |
|  | Region 1: Lucerna |  |
|  | Region 2: Phillips |  |
|  | Region 3: Jean |  |
|  | Region 4: Boespflug |  |
|  | Region 5: Valentinelli |  |
|  | Project Development: Vacant |  |
|  | Specifications: Brinck |  |
|  | Bridge: Hasan |  |
|  | Contracts & Market Analysis: Eddy |  |
|  | Materials: Schiebel |  |
|  | Traffic Engineering: Matthews |  | REVIEWER COMMENTS:  ( ) Approved ( ) Disapproved ( ) Modified  If disapproved or modified, give reason why and show any modifications on the attached draft copy:    \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_  Name/Signature Date | |
|  | Maintenance: Weldon |  |
|  | FHWA: Larson |  |
|  | Attorney General: Milan |  |
|  |  |  |
|  | **Others:** |  |
|  | Colorado Contractors Assoc.: Moody |  |
|  |  |  |
|  | **Technical Committees:** |  |
|  | PDAC |  |
|  | Drainage Advisory Committee (DAC) |  |
|  | Water Quality Advisory Committee (WQAC) |  |

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| **COLORADO DEPARTMENT OF TRANSPORTATION** **SUBMITTAL OF NEW SPECIFICATION OR SPECIFICATION CHANGE** | | | Log No. (Assigned by Standards and Specifications Unit)  702-26 | |
| TO: Standards and Specifications Unit, Project Development, Suite 290 | | FROM:  Michael Stanford, MAC  (Region, Branch or Technical Committee) | | |
| SPECIFICATION SECTION NO.  702 | ITEM  702 | | | Priority  Routine Fast |
| Reason for this new or changed specification:    This Revision of 702 Bituminous Material Pilot Project Special Provision is needed to assist the Regions with the necessary Specification Language to allow the contractors the option to modify the asphalt cement with polyphosphoric acid (PPA), at a rate not to exceed 0.5% of the binder mass. PPA is found to be an acceptable means to modify asphalt binder by several DOT's. It was determined that further pilot projects be constructed within Colorado prior to accepting it as a CDOT Standard Special Provision.  The Pilot Project Special Provision, 702 Bituminous Materials was approved by the Materials Advisory Committee, via E-Vote in February 2017. | | | | |
| New or Revised Specification:    See Attached | | | | |
| Note: See Procedural Directive 513.1 for a description of appropriate specification development procedures. | | | | |

**CDOT Form 1215 10/01**

REVISION OF SECTION 702

BITUMINOUS MATERIALS

Section 702 of the Standard Specifications is hereby revised for this project as follows:

In subsection 702.01, delete the second and fourth paragraphs in (a) and replace with the following:

Polymer modified asphalt cement shall not be alkaline modified. Non-Polymer modified asphalt cement shall not be acid modified or alkaline modified.

Asphalt cement may be modified with polyphosphoric acid. PPA may be added to the binder during manufacturing, at a rate not to exceed 0.5% of the binder mass. PPA modified binder used in warm mix asphalt shall be compatible with warm mix asphalt technology. The supplier of the PG binder shall be certified in accordance with CP 11.

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**INSTRUCTION TO DESIGNERS** (delete instruction from final draft):

Use this special provision when polyphosphoric acid (PPA)-modified binder is to be added to Hot Mix Asphalt, as determined by the Region Materials Engineer.